SIP-T780N / T780P (G/W/K) N User Manual



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herald



This device complies with the essential requirements of CE, FCC and other relevant

CE mark

The device complies with the EU Safety Directive 2014/35/EU and the EMC Directive 2014/30/EU.

FCC Regulations Part 15

The equipment complies with Part 15 of the FCC regulations. Operation should comply with the following two requirements

1. The device does not produce harmful interference.

2. The equipment must accept any interference received, including interference that may cause unintended operation.

WEEE Mark



Since there are certain hazardous substances in electronic products, in order to properly dispose of these electrical and electronic wastes and to recycle valuable resources, when users intend to dispose of this product, it should not be disposed of with other household wastes, but should be handled independently.



Customer Feedback

We are working hard to improve the quality of the documentation and would love to receive your feedback. If you have suggestions or questions about the content of the documentation, please send your feedback to pan.jiandong@lvswitches.com.



Purpose of preparation

Thank you for using SIP-T780N/SIP-T780(P/G/W/K)N IP Phones, which is a feature-rich and simple office phone, in addition to high-definition sound quality, unique design, multi-language interchangeable; support for dual network ports, POE power supply; compatible with many vendors' service platforms, such as IPPBX, cloud PBX, IMS core network, softswitch, etc.; detachable stand can changes to multiple views, 2 customizable function buttons and a friendly user interface to fully meet the needs of users' communication and collaboration.

SIP-T780N/SIP-T780(P/G/W/K)N use the same firmware, the software functions are the same, the difference is in the hardware, the following table describes the difference between these hardware.

Product Model	clarification		
SIP-T780N	regular version		
	P (carrying PoE power)		
	G (carries Gigabit Ethernet port)		
SIP-T780(p/g/w/k)N	W (with WIFI module)		
	K (with external network port for		
	expansion station)		

This guide contains all the features of the phone and instructions to familiarize you with the features of the T780N IP phone. Before installing the T780N IP Phone, please read the following sections of this guide.__<u>Safety Instructions and Packing List</u> sections of this guide for safe and quick use of the T780N IP phone.

For more help, contact your network administrator or reseller.

Content of the manual

This guide contains the following:

- ▶ <u>1. Overview</u>
- ▶ <u>2. safe Notes on</u>



- ➢ <u>3. Phones Getting Started with</u>
- ➢ <u>4. Telephone customization</u>
- ➢ <u>5. Basic functions</u>
- ➢ <u>6. Advanced features</u>



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Summarize

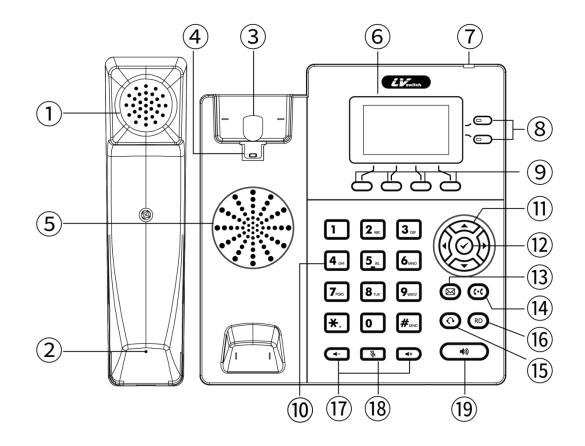
This section provides a brief overview of the T780N IP Phones, with the following key points:

- Hardware Composition
- Description of display icon
- Indicator light description
- <u>Configuration Interface Description</u>
- Using Documents

Hardware Composition

The hardware components of the T780N telephone mainly include the panel control panel, LCD display, call handles and external expansion disk. The details are shown in the figure below:





serial number	Name	clarification		
1	Handset earpiece	Audio output when using the handle for calls.		
2	handheld microphone	Audio input when making a call using the handle.		
3	Switch hook	Handle placed/hookswitch pressed——hang up Handle lift/hookswitch bounce——pick up Pak hook ——Flash operation		
4	Handle Hooks	Used to secure the handle. Hang the phone on the wall with the hook protruding upwards.		
5	speakers	Outputs audio while the phone is on a hands-free call.		



		Displays information about the phone:
		- Register account information (display
		name, display number).
		- Time Date.
6	liquid crystal	- Tip Icons (see details) Display Icon
	display	Description).
		- Prompt messages (incoming calls, missed
		calls, e-mail messages).
		- Operational Cues.
		- Incoming Call Alert Breathing Light"
		flashes fast.
		- The "Message Alert Breathing Light"
7	Breathing light	flashes slowly.
		For details, please refer to Indicator
		light description .
		- Switching accounts.
8	account key	- Intercom button.
		- Caller ID call account light
9	4 soft keys (below the display)	Corresponding to the four function names at the bottom of the display (For example, there are 4 soft key functions displayed on the main interface: History, Dir, DND, Menu) These four soft keys will change with the operation of the phone keys. In the function description below, the soft keys refer to these four keys. The soft key functions correspond to the text at the bottom of the display screen.
10	numeric keypad	Provides numeric input, upper and lower case letter input, punctuation input (* # . :).



11	Up, down, left and right buttons	Options for toggling the display.	
12	keystrokes	 Function setting confirmation operation. Dialing after enter a number. Answer the call when it comes in. View network status (IP address, MAC address, version information, etc.). Configure the message feature code, which 	
13	Message Button (old SMS) (Message)	is provided by each IPPBX, and press the number to quickly query the voice information of the phone after configuration.	
14	Call Forwarding/Forwarding Button (Transfer)	 Blind transfer. Inquiry transfer. Quick-switch call forwarding when the phone is idle. This can also be accomplished with the soft keys at the bottom of the screen. 	
15	Headset buttons (Headset)	Pressing the headset button causes the audio to go to the headset, which must be plugged in to use headset mode. For more information, please refer to Headset use .	
16	RD button (Redial)	For redialing.	
17	Volume up and down buttons	Provides $0^{\sim}15$ frame volume setting.	
18	mute button (Mute)	Press the Mute button during a call to	



		mute the call.
19	hands-free button (Speaker)	Use hands-free calling.

Display icon composition

The main icons used in the T780N display and the corresponding

descriptions of the icons are shown in the table below:

typology	Icon Style	Icon Description		
username	\bigcirc	Account not enabled/not registered.		
(statistics)	2	Account registration in progress.		
correlation	6	Account is registered.		
	DND	Phones are free of interruptions.		
	AA	Auto-answer.		
	\checkmark	Missed calls.		
	00	Voice mail.		
	\boxtimes	Text message.		
Voice status	■ X	The phone is in mute mode.		
		Hands-free mode for calls.		
		Call Handle Mode.		
	\cap	Talking headset mode.		
	V	Call mute.		
	Ċ	Call Forwarding Enabled.		
	\checkmark	Missed calls.		
call sheet	Received call.			
icon		Dialed number.		
	C	Transferring calls.		
system icon		The network is not available.		

Indicator light description

The T780N indicator status and description are described in the following



table:

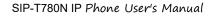
typology	Indicator status	clarification
	go out	Standby, power off.
		The initialization indicator is always on
Breathing	Ever Bright	when the phone starts up.
light	flach	The indicator light flashes rapidly when the
(red	flash	phone is ringing from an incoming call.
light)		Indicator light blinks slowly when the phone
	slow flash	receives message alerts such as voice mail,
		missed calls, etc.
Account	go out	The account is idle.
line	Error Drainlat	The account line is being occupied.
light	Ever Bright	The account line is on the line.
(green	flach	The line flashes rapidly when the phone is
light)	flash	ringing from an incoming call.

Configuration Interface Description

The T780N phone supports the following ways to configure the phone:

- Phone Interface Configuration
- <u>Computer Web Configuration</u>
- Mobile Scan Web Configuration

Quickly configure the phone, through the phone LCD display and the phone keypad panel you can configure and use the phone functions. If you know the IP address of the phone, you can also enter the IP address of the phone into your browser to view all the features of the phone and configure them through your browser. If you don't have a computer nearby you can use your smartphone to scan the QR code provided by the phone to configure it. The details are described below:





Phone Interface Configuration

Enter the menu through the soft key of the phone, you can configure the basic settings (language, ringtone, etc.), and configure the advanced settings (account number, network, etc.), to enter the advanced settings you need to enter the administrator password, the initial administrator password of the T780N is admin, enter it and enter. Meanwhile, there are some basic functions in the menu, please check the introduction of specific function settings. <u>Function Configuration</u> Chapter.

Computer Web Configuration

- Method to view the IP address (IPv4 or IPv6) of the phone:

It can be viewed in any of the following ways:

- 1. Press the ok we button to view.
- 2. Press the Menu soft key \rightarrow Enter Status Options to view.

Description IPv4 address e.g. 192.168.1.123. IPv6 addresses such as 2003:4998:c:e33::1004 .

After obtaining the IP address of the phone, enter the IP address in the web browser of your computer, for example: IPv4 address (192.168.1.123 or http://192.168.1.123), IPv6 address ([2003:4998:c:e33::1004] or http://[2003:4998:c:e33::1004]), enter the login page of the phone, use the login password to enter the main interface, the initial administrator account password are lowercase admin.]), enter the phone login page, use the login account password to enter the main interface, the initial administrator for account password to enter the main interface, the initial administrator account password is lowercase admin. For the specific function settings, please refer to Function Configuration Chapter.



Mobile Scanning Configuration

Get the QR code of the phone through the QR code function of the phone, before scanning, the smartphone needs to be connected to the same network as the phone's WIFI, in order to use the smartphone to scan the QR code to access the phone's management page, the specific function setup introduction, please check the <u>Function Configuration</u> Chapter. For more help, please contact your network administrator.

A comparison of the features that can be configured on the three configuration method is shown below:

functional item	Phone Configur ation	Web Configuratio n	Scanning Configuration
Status	-		
⊢ IPv4			
⊢ IPv6			
⊢ MAC address	-		
⊢ Version		\checkmark	\checkmark
∟ More		·	, , , , , , , , , , , , , , , , , , ,
⊢ Network]		
- Device			
└ Accounts			
Account			
⊢ User information	\checkmark		
- Label	\checkmark		
⊢ Display name	\checkmark		
⊢ User name	\checkmark		
⊢ Register name	\checkmark		
└ Password	\checkmark		
⊢ Server information		,	,
- Sip server 1	\checkmark	\checkmark	\checkmark
- Sip server 2	\checkmark		
⊢ Sip port number	\checkmark		
- Transmission mode	\checkmark		
- Re-registration times	\checkmark		
- Proxy server	×		
⊢ Server Expires	×		
⊢ Auto Answer	\checkmark		



	,		
- Proxy Server	~		
└ NAT	~		
├ Codec Setting	~		
└ Advanced			
⊢ DTMF	~		
⊣ User Agent	×		
⊢ SRTP	×		
⊣ Keep Alive Type	×		
⊢ Retransmission	×		
⊢ Caller ID Source	×		
⊢ Session Timer	×		
⊢ Session Expires	×		
⊢ SIP Registration Retry Timer	×		
⊢ Conference Type	×		
├ Directed Call Pickup Code	×		
- Unregister When Reboot	×		
⊢ RFC 2543 Hold	×		
└ Synchronize Server Time	×		
Network setting			
⊢ Basic Setting			
└ IPv4/IPv6/IPv4 & IPv6	~		
- DHCP	~		
└ Static IP	~		
⊢ Advanced Setting			
⊢ CDP & LLDP	\checkmark		
⊢ VLAN	\checkmark		
- Voice Qos	×		
⊢ Web Server type	~	\checkmark	\checkmark
└ VPN			
- OpenVPN	×		
∟ L2TP	×		
├ Diagnosis			
- Pcap			
⊢ Normal Pcap	×		
└ Enhanced Pcap	×		
└ Diagnostics			
- Ping	~		



└ Traceroute	~		
⊢ NAT		-	
└ STUN	×	-	
L SNMP	X	_	
Features			
⊢ Call forward		-	
- Always Forward	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	_	
- Busy Forward	√	_	
└ No Answer Forward	√	-	
- No Answer Forward - Call transfer	 √	-	
- Auto Answer	√	-	
⊢ Anonymous Rejection	~	-	
⊢ Local Anonymous	~	1	
⊢ Hotline	~		
├ Call Hold			\checkmark
- Hold Tone	×		
└ Hold Tone Delay	×	-	
⊢ Call Number Filter	×	-	
⊢ QR code	~	-	
⊢ DND	\checkmark		
├ Call Waiting	\checkmark		
⊢ Psw Prefix	×		
L Conference			
⊢ Local Conference	×		
└ Network Conference	×		
Advanced Features			
⊢ BLF (Busy Lamp Field)	\checkmark		
⊣ Multicast	~	-	
└ Multicast Codec	×		
⊢ sms			
⊢ Text Message	~	1	
└ Voice Mail	~	~	\checkmark
⊢ Auto Redial	~		
⊢ Status Return Code	×		
- Dual Headset	×	•	
⊢ Headset Prior	×		
⊢ Intercom	~		
⊢ Action URL	×		



- Remote Control	×		
L Auto Provision	\checkmark		
Customization			
- Sound			
⊢ Key Tone	\checkmark		
⊢ Ring	\checkmark		
⊢ SMS Beep	×		
⊢ Signal Tones	×		
└ Sound Gain	\checkmark		
- Display			
⊢ Time&date	\checkmark		
⊢ Language	\checkmark		
⊢ Power LED	×		
⊢ Notification Popups	×		
⊣ Backlight	×		
⊢ BootUP image	×		
- ScreenSaver	×	\checkmark	\checkmark
└ Power Save Mode	×		
⊣ Key As Send	\checkmark		
⊢ Dial Plan	×		
⊢ Dsskey			
⊢ LineKey	\checkmark		
⊢ Programmable Key	×		
└ EX Module	×		
⊢ Keypad Lock	\checkmark		
⊢ Auto Reboot	×		
⊢ Import/Export Configuration	×		
⊢ TR069	×		
⊢ SoftKey Layout	×		
└ SIP Setting	×		
Directory			
- Local Contacts	\checkmark		
⊣ Blacklist	\checkmark		
⊢ Remote Phone Book	×	\checkmark	\checkmark
⊢ History	\checkmark		
├ Update Directory	×		
└ LDAP	×		



Description QR code Configuration Phones and PC Web Configuration Phones have the same functionality, the following chapters only show the diagrams for PC Web Configuration.

Using Documents

The T780N is supplied with the following technical support manual:

name	clarification	Where to get	Language type
	Includes easy	Comes with phone	
T780N Quick	installation and	package	Chinese/English
Start Manual	customization of	Lvswitch official	Chinese/English
	the phone	download	
T780N IP	Detailed Functions	Lyswitch official	
Phone User's			Chinese/English
Guide	and Usage	download	



Safe Use

Please read the safety instructions carefully before installing and using the phone to ensure safe and convenient use of the phone!

- Use the power adapter specified for the product (included in the package). If you need to use a power adapter supplied by another manufacturer, please make sure that the voltage and current of the supplied adapter are in accordance with the specifications of the product (see details <u>Connecting the power supply and network cable</u> <u>chapter</u>), and it is also recommended to use a product that has passed the safety certification, otherwise it may cause damage to the equipment or even result in fire or electric shock accidents. Before using this product, please check whether the power cord is damaged or not. Do not use damaged power cords and power cords in abnormal condition, such as twisted, stretched, or bundled power cords, as this may cause fire and electric shock accidents.
- Non-technical service personnel do not disassemble or repair the product by yourself, improper installation or repair may cause electric shock, fire and other accidents, while your product warranty will be invalidated. For technical support, please contact the agent or your network administrator.
- Maintain the temperature and humidity of the product to meet the



working requirements of the product. Ensure that the product is placed flat on the working platform, and check that the anti-slip rubber on the base of the product has not come off and caused the phone to slide on the platform. Place the device away from electrical appliances with strong magnetic or electric fields, such as microwave ovens or refrigerators. Keep the device away from sources of ignition.

- Do not put metal foreign objects such as large pins, wires, etc. into the vents or crevices. Otherwise, it may cause electric shock and other injuries caused by the current passing through the metal foreign objects. If foreign objects or similar metal objects fall into the product, it should be stopped in time.
- This product contains small parts inside, place the device out of reach of children to avoid accidental swallowing of small parts.
- If you need to clean the phone, please cut off the power supply, use a dry rag to wipe, and after cleaning, place it in a ventilated place to dry naturally, the power adapter needs to be kept dry and clean, otherwise accidents may occur.



Getting Started with Phones

This chapter introduces you to getting started with the $\ensuremath{\mathsf{T780N}}$ IP Phone as

follows:

- Packing List
- Phone Installation
- Phone initialization
- Phone Standby Interface
- Check the status of your phone
- Setting up the phone network
- Register for an account
- Phone Input Methods and Input Methods

Packing List

The following accessories are included in the shipping package of the T780N IP Phone:

Accessory Name	quantities	photograph
T780N IP Phone Host	×1	



T780N IP Phone Handle	×1	•
T780N IP Phone Base	×1	
T780N IP Phone Connection Cable	×1	
Ethernet cable	$\times 1$	





Instruction Before installing the phone, please check the completeness of the accessories according to the packing list, if any accessories are missing, please contact your network administrator or seller.

Phone Installation

If you have already successfully installed the phone, skip this section and navigate to the <u>Initializing the Phone</u> section.

The installation steps are as follows:

- <u>Mounting Base</u>
- <u>Connection handle, headset (optional)</u>
- <u>Connecting the power supply and network cable</u>

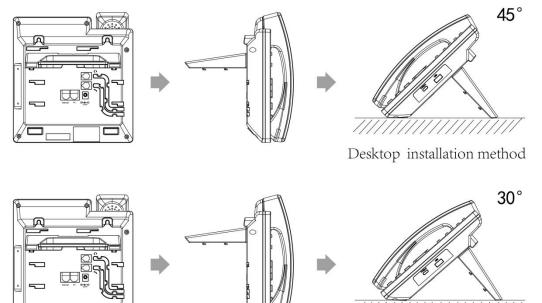


Mounting Base

There are two types of base mounting:

- a) Desktop mounting
- b) Wall mounting

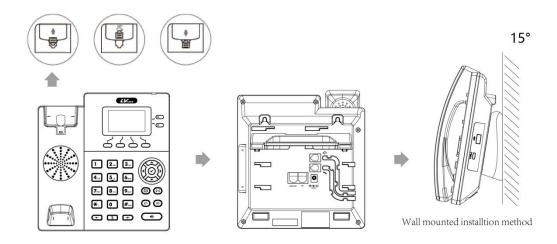
- Desktop mounting



Desktop installation method

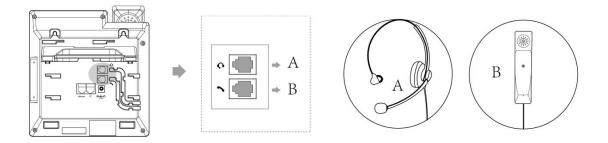
- Wall mounting

The hook of the phone for wall mounting requires reversing the handle hook to prevent the handle from falling off the phone.





Connection handle, headset (optional)



Slot A is the headset jack and slot B is the handle jack.

Instruction To use the headset, you need to turn on the headset mode,
 please check the details of how to use it. Using the headset
 section for details on how to use the headset.

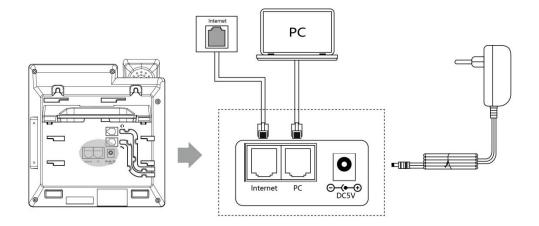
Connecting the power supply and network cable

The phone supports two types of power supply:

- a) AC power supply
- b) POE power supply

- AC power

Use the power adapter included in the package to connect the power outlet to the DC5V socket of the phone; use the Ethernet cable included in the package or use a standard parallel cable to connect the upper layer switch/router to the Internet port on the back of the phone.





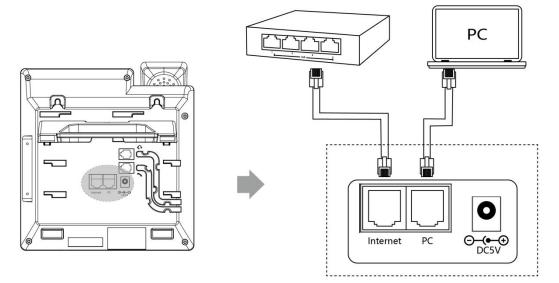
- PoE Power Supply

Use an Ethernet cable to connect a PoE switch to connect the hub to the Internet port on the back of the T780NP IP Phones.

Instructions The voltage of the adapter used should not be higher than

5V --- 1A to avoid damage to the phone chip. For safe use of the phone, please read the<u>Safe Use Instructions for</u> for safe use of the phone.

Note: If you use PoE power supply, please make sure your computer and switch support PoE power supply, if you use PoE power supply, you don't need to connect the adapter for power supply, if you need help, please contact your network administrator or reseller for confirmation.



IEEE802.3af standard PoE switch

Phone initialization

When the phone is properly installed and powered up, the phone startup will make the following display:

• Phone initialization

The red breathing light is always on and the account soft key light is always on, the LCD screen displays "initializating".



• Obtaining a network (the phone's initial network is automatically obtained by DHCP)

After successfully starting the phone, the phone will automatically obtain the assigned IP address, subnet mask, default gateway and DNS server and other network configurations. If the network cable is connected after the phone is started, the LCD display will show a prompt that the network is being obtained.

Description If you are unable to obtain network information, please check the <u>Network Settings</u> section, or contact your network administrator or dealer to check.

Phone Standby Interface

The display screen after the phone starts normally is as follows:



The phone standby screen displays the time and date of the phone, the status of the phone (Do Not Disturb, Auto Answer), the registration status of the account, the extension number, labels, and labels for the four soft keys (History, Directory, DND, Menu) at the bottom of the LCD. For icon descriptions of the standby screen, please refer to <u>Display Icon</u> <u>Composition</u>.

Check the status of your phone

The phone status contains the following information:



• Network information

IP Mode, IPv4 / IPv6 Address, Subnet Mask, Default Gateway, DNS Servers.

• Account Status

SIP account registration information.

• Equipment Information

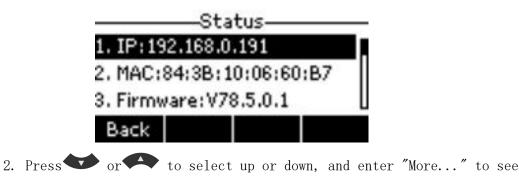
Firmware version, product name, hardware version, MAC address, product ID.

Viewing the status of the phone can be done in the following ways:

- Phone interface for viewing

1. Press the word button or press the softkey Menu->Status to access

the view.



more detailed status.

- Computer Browser Interface for Viewing

1. Open your browser.

2. Enter the IP address (IPv4/IPv6) of the phone, such as 192.168.0.130 as shown above.



3. Enter the phone login page, enter the account password to login, the

Welcome t	o IP phone	
admin		
Cancel(c)	Confirm(s)	

initial account and password are (admin)/admin).

Description If there is no need to configure the network mode and the default IP mode of the T780N is IPv4, skip this step.

Setting up the phone network

The T780N can be set up with three network modes: IPv4, IPv6, IPv4 and

IPv6.

Explanation When you enter an IPv6 address, you must put brackets around the address, such as [fe80::daec:a3ff:fe43:ad34], otherwise you can't access the web page of the phone through the Ipv6 address, and not all servers support IPv6, so please consult with your network administrator before you use it.

- Setting the network mode through the phone interface

1. Press Menu->Settings->Advanced Settings (password: admin)->Network-

>WAN Port.

2. Press the Switch softkey to select the desired mode (IPv4, IPv6,

IPv4 and IPv6) in IP Mode.

3. In case of IPv4 and IPv6 modes, you can configure the mode priority,



press or to select the mode priority and press the **Toggle** soft key to switch.

4. Press the Save soft key to save after selecting the mode.

- Setting the network mode through the web interface

- 1. Log in to the phone page by IP address.
- 2. Click Network Configuration (N)->Basic (b)->WAN Interface and

select it in the drop-down box.

3. Click the Submit button to save the configuration.

IP Phone		English (English) 🔹 😧 admin 🔹
Menu	Network configuration - basics	Note
Status(S) Cont(A) Cont(A) Cont(N)	WAN Interface Mode(IPv4/IPv6) IPv4 & IPv6 Preference(IPv4/IPv6) IPv4 IPv4 Config	DHCP The network configurations will be acquired from DHCP server. Static IP Address
Basic(b) Advanced(v) Diagnosis(d) NAT SNMP	DHCP ⑦ Static IP Address ⑦ IP Address Subnet Mask Gateway	Specify the IP address, Subnet Mask, Default Gateway, Primary DNS, Secondary DNS fields manually.
	Static DNS On Off Primary DNS Becondary DNS IPv6 Config DHCP Costatic IP Address IP Address IPv6 Prefx(0-128) IPv6 Pr	

The T780N phone can be set up with a static IP address.

- Setting up a static IP through the phone interface

1. Press Menu->Settings->Advanced Settings (password: admin)->Network-

>WAN Port.

2. Press or or to select IPv4 or IPv6 -> Static IPv4 Client and press the Enter softkey to enter the detailed settings.

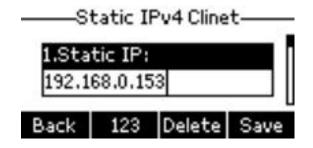
3. Press or to select.

IPv4 requires IP address, subnet mask, default gateway, preferred DNS and alternate DNS.

IPv6 requires IP address, IPv6 prefix, default gateway, preferred DNS and alternate DNS.



4. Press the **Save** soft key to save the configuration or the **Return** soft key to cancel the setting when you are done.



- Setting up a static IP through a web browser

1. Log in to the phone page by IP address.

2. Click Network Configuration (N)->Basic (b)->IPv4 Configuration or

Ipv6 Configuration.

3. Check Static IP address according to the selected WAN interface mode.

IPv4 requires IP address, subnet mask, default gateway, preferred DNS and alternate DNS.

IPv6 requires IP address, IPv6 prefix, default gateway, preferred DNS and alternate DNS.

4. Click the **Submit** button to save.

IP Phone		English (English) 🔻	admin 👻
Menu	Network configuration - basics		Note
▲ Status(S)	WAN Interface	Г	DHCP
Account(A)	Mode(IPv4/IPv6) IPv4 ~ ?		The network configurations will be acquired from DHCP
Network(N)	IPv4 Config		server.
Basic(b)	O DHOP (?)		 Static IP Address Specify the IP address, Subnet Mask, Default
Advanced(v)	Static IP Address		Gateway, Primary DNS, Secondary DNS fields
Diagnosis(d)	IP Address 192.168.0.197		manually.
NAT	Subnet Mask 255.255.0		
10000	Gateway 192.168.0.1		
SNMP	Static DNS On Off Off		
또 DssKey(D)	Primary DNS 114.114.114		
B Features(U)	Secondary DNS 8.8.8.8		
క్రిస్టే Settings(E)	IPv6 Config		
Directory(B)	DHCP ?		
Security(F)	Static IP Address ?		
() Security(F)	IP Address		
	IPv6 Prefix(0~128)		
	Gateway		



Explanation Wrong IP configuration may cause the phone can not access the web interface, before configuration, please make sure the IP address is not the same as the IP in the LAN, if you need help, please contact your network administrator.

Register for an account

The T780N phone supports two types of configuration:

- Manual Configuration
- Software Batch Configuration

T780N IP phone supports up to dual account registration, account switching through the phone's account button, the phone is generally configured centrally by the system administrator, when you get the phone that has been configured account, as long as you plug in the Internet cable to get the IP and the account registration is successful, you can use the account to make a phone call. If the phone has not been configured with an account, you need to manually configure the account, for details, please refer to <u>Account</u> <u>Management</u>.

Phone Input Methods

The phone supports keypad input, using the numeric keypad you can enter data into the screen to configure the phone's functions.

T780N supports four input methods: 123, abc, ABC and 2aB, where you need to enter data, use the soft keys to switch between these input methods, when the input method is in 2aB, press the key repeatedly to switch the characters to be entered (numbers/letters/punctuation), when switching to



the character you want, stop and wait for 1 second before the next character is entered.

- The characters that can be entered by different input methods of the keyboard are listed in the table below:

input me thod keystrokes	123	2aB	abc	ABC
1	1	1		
	2	2abcABC	abc2	ABC2
3 def	3	3defDEF	def3	DEF3
4 сні	4	4ghiGHI	ghi4	GHI4
5_ikl	5	5jkIJKL	jkl5	JKL5
6 mno	6	6mnoMNO	mno6	MNO6
ZPORS	7	7pqrsPQRS	pqrs7	PQRS7
8	8	8tuvTUV	tuv8	TUV8
9 wxyz	9	9wxyzWXYZ	wxyz9	WXYZ9
0	0	0	Space	Space
*.	*	*.' #?! \-()\$@/:_	*.' #?! \- ()\$@/:_	*.' #?! \- ()\$@/:_
#send				
Pick up				
Mute				
Trans				

- Input Method Introduction:

Instance	way
Input English words	- Switch input method to 2aB



Switch	1. Press the key ⁷ continuously until S
	appears.
	2. Press the key 9 continuously until w
	appears.
	3. Press the key 4 continuously until i
	appears.
	4. Press the key 8 continuously until t
	appears.
	5. Press the key 2 _{ABC} continuously until c
	appears.
	6. Press the key 4 cm continuously until
	h appears.
	Finally form the word.
Enter IP address	- Switch the input method to 123
192. 168. 0. 1	1. Enter the number.
	2. Press the key 🗙 consecutively until
	the symbol '.' appears



Phone customization

You can customize the phone according to your own habits, such as: language, time and date, ringtones, contacts, and phone lists, etc. This chapter will give a detailed introduction to customizing the phone, the main contents are as follows:

- ➢ Basic settings
- Sound Settings
- Contact Management
- CDR Management
- Accessory Customization
- System Customization

Basic settings

The basic T780N setup consists of the following:

- <u>multilingualism</u>
- <u>Time & Date</u>
- <u>call-out button</u>
- <u>keypad lock</u>
- Power lamp
- <u>backlight</u>
- pop-up notification window
- <u>Boot Picture</u>
- <u>screensavers</u>
- power saving mode

multilingualism

T780N supports multi-language, the default language of the initialization



of the phone is English, the phone interface and the web interface are integrated: after changing the language of the phone, the web page will update the language synchronously with the phone after refreshing; after changing the language of the web interface, you need to restart the phone.

- Setting the language through the phone interface

- 1. Press Menu->Settings->Basic Settings->Language.
- 2. Press or to select the language you want to change.

3. Press the **Save** soft key to save the language selected by the arrow as shown below.

L	anguage
1.简体中	中文 (Chinese Sin)
 2.English 	(English)
3.Türkçe	(Turkish)
Back	Save

Explanation When the language is changed in the phone interface, the language will be changed to the language set by the phone after the web interface is refreshed (e.g., if English is set in the phone interface and the web interface is refreshed, the language of the web interface will also be changed to English).

- Setting the language through the web interface

1. Enter the IP address of the phone to enter the web interface.

2. At the top right of the web interface, switch languages by using the drop-down box.



Menu	count-advanced			English (English) Türkçe (Turkish)	Note
Status(S) Account(A) Register(r) Codec(z) Advanced(j)	Identity DTMF: DTMF Info Type DTMF Payload Type (96~127) Local anonymous	Account RFC2833 DTMF-Relay 101 Disable	• • •	한국 (Korean) Pyccxwä (Russian) 繁禧中文 (Chinese Traditional) Français (French) Italiano (Italian) Deutsch (German) Polski (Polish) Portugués (Portuguese) ภาษาไทย (Thai) (ह국간 (Hindi)	Advanced The Advanced parameters for administrator.
Network(N) → DssKey(D) →	Anonymous Reject Anonymous Code On Code	Disable Off Code	~	الله البريية (Arabic) 日本語 (Japanese) Español (Spanish) ViệtName (Vietnamese)	
음 Features(U) ▼ 중 Settings(E) ▼	Off Code Anonymous Reject	Off Code	~		
] Directory(B) → Security(F)	On Code Off Code				
	User Agent	T790 Disable			
	RTP Encryption(SRTP) Max RTP Port (1024~65535)	12780	~		
	Min RTP Port (1024~65535)	11780 Disable			
	Shared Line Keep Alive Type	Disable	~		

Explanation When you change the language in the web interface, only when the phone is restarted, the language of the phone interface will be synchronized to the language set in the web interface (e.g., if you set English in the web interface, and the phone is restarted, the language of the phone interface will also be changed to English).

Time & Date

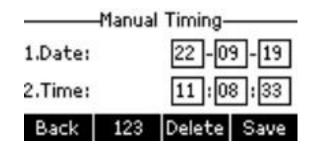
The T780N can be set to display the time on the LCD when the phone is on standby, configure your SNTP server to get the time and date automatically, or set the time and date manually.

- Automatic time and date acquisition through the phone interface
 - 1. Press Menu->Settings->Basic Settings->Time & Date->Automatic Timing.
 - 2. Press the **OK** soft key to save .
- Manually set the time and date through the phone interface
 - 1. Press Menu->Settings->Basic Settings->Time and Date->Manual Time



Setting.

- 2. Press or to select.
- 3. Enter the time and date you want to set via the numeric keypad.
- 4. Press the **OK** soft key to save the settings when they are complete.



- Automatically obtaining time through web browsers

- 1. Log in to the phone page by IP address.
- 2. Press Setup (E) -> Date Time (t) .
- 3. Manual settings are disabled by default.
- 4. You should fill in the SNTP server address in the Preferred Server

and Alternate Server.

- 5. Set the synchronization period in (seconds).
- 6. Click the Submit button to save the settings when they are complete.

IP Phone		English (English	n) 🔹 💽 admin 🔹
Menu	Settings - Time & Date		Note
Image: Status(S) ▼ Image: Construction of the state of	Time & Date Manual Time : Time Zone : Daylight Saving Time : Primary Server :	Disabled GMT+08:00 China Standard Time, Singapore, HongKong, Urumqi, Taipel Automatic Enabled Cn.pool.ntp.org (?)	Time Zone Choose the time zone you are in. The Server The server which is used to synchronize the clock of the phone.
දිටු Settings(E) ▲ Preference(i) Time & Date(t)	Secondary Server : Synchronism : Time Format : Date Format :	poel intp.org ? 10000 ? Hour 24 ? MM DD WWW ?	
Upgrade(u) Configuration([) Tones(q)		Cancel(c) Confirm(s)	
Voice(;) Dial Plan(k) TR069(\)			

- Manual time setting via web browser
 - 1. Login to the phone page by IP address .
 - 2. Press Setup (E) -> Date Time (t).



- 3. Manual setting is selected as Enable.
- 4. Set the time and date as needed.
- 5. Click the Submit button to save the settings when they are complete.

 Account(A) Manual Time : Enabled ?? you are in. Network(N) Date : Year 2022 Month 5 Day 21 NTP Surver The server which to synchronica bit of the phone. NTP Surver The server which to synchronica bit of the phone. Minute 16 Second 27 ?? Time Format : Hour 24 ?? Date Format : Minute 100 WWW ?? Date Format : Minute 100 WWW ?? Date Format : Minute 100 WWW ?? Provide the phone in the phone phone in the phone in the phone phone in the	IP Phone			English (English) 🔹	iadmin 🔹
Preference(i) Cancel(c) Confirm(s) Time & Date(t) Upgrade(u) Configuration([) Tones(q) Voice(.) Dial Pfan(k) TR069(V) Call Display(*) Auto Provision(3) Entertion	Menu Image: Status(S) ✓ Ima	Time & Date Manual Time : Date : Time : Time Format : Date Format :	Year 2022 Month 5 Day 21 Hour 10 Minute 16 Second 27 Hour 24 V 7		Note Time Zone Choose the time zone you are in. NTP Server The server which is used to synchronize the clock

- Daylight Saving Time setting

1. Log in to the phone page by IP address.

2. Press Setup (E) -> Time&Date(t).

3. Daylight saving time is set automatically, just select the corresponding location.

4. The manual setting method of daylight saving time can divided into weekly and date methods. You should set the start time and end time of Daylight Saving Time.

5. Click the Submit button to save the settings when they are complete.

Automatically sets daylight saving time:



IP Phone			English (English)	• 😧 admin •
	Settings - Time & Date Manual Time : Time Zone : Daylight Saving Time : Place : Fixed Type : Start Date : End Date : Offset(minutes) : Primary Server : Secondary Server : Synchronism : Time Format : Date Format :	Automatic Enabled Disc China(Beijing) None Austalia(Perth) Hong Kong, Umol Hong Kong, Umol Russalia(Perth) Grappore(Singapore) Taipei Ulaanbaatar Cruppoling.porg pool.ntp.org 10000 Hour 24 MM DD WWW	 ⑦ Singapore, HongKong, Urumqi, Talipei 	Note • Time Zone Choose the time zone you are in. • TIP Server The server which is used to synchronize the clock of the phone.

◆ The date method sets daylight saving time:

IP Phone			English (English)	• 🛛 💮 admin •	
Menu	Settings - Time & Date			Note	
Menu ▲ ▲ Status(S) ▼ ▲ Account(A) ▼ ▲ Network(N) ▼ ▲ DssKey(D) ▼ ■ Features(U) ▼ ● Settings(E) ▲ Preference(i) ▼ Time & Date(t) ↓ Upgrade(u) ↓ Configuration([) ↓ Tones(q) ↓ Voice(.) ↓ Dial Plan(k) ↓	Settings - Time & Date Time & Date Manual Time : Time Zone : Daylight Saving Time : Fixed Type : Start Date : End Date : Offset(minutes) : Primary Server : Secondary Server : Synchronism : Time Format : Date Format :	Disabiled	mqi, Taipei 🗸	Note • Time Zone Choose the time zor you are in. • TIP Serve The serve which is to synchronize the c of the phone.	used
TR069(\) Call Display(^) Auto Provision(3)		- Comm(c)			

◆ Weekly way to set daylight saving time:



Menu 🄶 🕯	Settings - Time & Date			Note
🖌 Status(S) 🛛 🗸	Time & Date			Time Zone Choose the time zone
⊇ Account(A) 👻	Manual Time :	Disabled	• ③	you are in.
Network(N)	Time Zone :	GMT+08:00 China Standard Time, S	ingapore, HongKong, Urumqi, Taipei 🖌 🗸	 NTP Server The server which is up
ng DssKey(D) 🚽	Daylight Saving Time :	🔿 Automatic 🔍 Enabled 🔿 Disa	ible ?	to synchronize the clo of the phone.
= B Features(U) →	Fixed Type :	O DST By Date : 🔍 DST By Weel	K: (?)	
Š Settings(E) ▲	Start Date :	January V First In Month V Su	n 🗸 00:00 🗸	
	End Date :	August 🗸 First In Month 🖌 Su	n 🗸 03:00 🗸	
Preference(i)	Offset(minutes) :	15	?	
Time & Date(t)	Primary Server :	cn.pool.ntp.org	(?)	
Upgrade(u)	Secondary Server :	pool.ntp.org	0	
Configuration([)	Synchronism :	10000	(?)	
Tones(q)	Time Format :	Hour 24	▼	
Voice(;)	Date Format :	MM DD WWW	• ?	
Dial Plan(k)		Cancel(c) Conf	irm(s)	
TR069(\)				
Call Display(^)				

- Setting the time and date display format through a web browser

- 1. Log in to the phone page by IP address .
- 2. Press Setup (E) \rightarrow Date Time (t).
- 3. Select the corresponding format in the time format (12-hour and 24-

hour systems are supported).

4. The phone supports 7 date formats, different date formats will show the corresponding date on the LCD display of the phone.

The following	table	shows	the	dates	displayed	for	each	date	format:
---------------	-------	-------	-----	-------	-----------	-----	------	------	---------

date format	The display shows
MM DD WWWW	Tuesday, April 7
YY MM DD	20-04-07
YYYYY MM DD	2020-04-07
YYYYY/MM/DD	2020/04/07
YY/MM/DD	20/04/07
YYYYY MM DD	April 7, 2020
MM DD WW	Tuesday, April 7



- Synchronization of server time via web configuration

1. Log in to the phone page by IP address .

- 2. Press Account (A) -> Advanced (j).
- 3. Select Synchronize server time.

4. Click Submit to save the configuration, you can realize the synchronization of SIP server time, which can be used in the case of invalid NTP server.

Call-out button

The T780N can be set up with the * and # symbols as call-out buttons, or

you can use the website button, **dialing** softkeys for call-outs, depending on your personal habits.

- Setting the call-out key in the phone interface

- 1. Press Menu->Function->Callout key.
- 2. Use the Toggle soft key to toggle the callout key (*, #, disable).
- 3. Press the **Save** soft key to save the operation after switching.

1.Key As	; Send:
#	0

Description For details on how to make a phone call, please see_ <u>Dialing a Phone Number</u> section.

keypad lock

Enabling keypad lock on the phone prevents the phone from being used by



unauthorized personnel or accidentally operated due to misuse. Only emergency numbers can be dialed while the keypad is locked; unlocking the keypad is required to dial other numbers.

Keypad locks can be categorized by type: menu keys, function keys, and all keys.

Menu Key: The menu soft keys and programming keys set to menu key are locked, all other keys are available.

Function keys: Direction navigation key, OK key, Message key, Transfer key, Redial key, 4 soft keys etc functions keys are locked. Other keys work normally.

All keys: except * key, # key, numeric keypad, speaker phone key, account key, and volume adjustment key, all keys are locked. The dialing screen can only dial emergency numbers with preset values. Incoming calls can be answered by lifting the handle, the Handsfree key, the Headset key, the Answer soft key, and the corresponding account key. Calls can be rejected with the Reject soft key.

- Setting the keypad lock through the handset interface

1. Press Menu \rightarrow Settings \rightarrow Basic Settings \rightarrow Keyboard Lock.

2. Enter the keypad lock password (factory default password is admin) at the Unlock PIN and press the **OK** soft key to enter.

3. If you enter the default password, you will be prompted to change the password, which is used to enter the keypad lock settings and unlock the keypad.

4. The Enable Keyboard Lock option can be enabled by pressing the left or right button or toggling the soft key.

5. Press the **left or right** button or **switch** softkey to select the type of keypad lock at the Lock Type option.



6. Enter the auto-lock time (0 to 3600 seconds) in the keypad lock time input box

a. If the setting time is 0 seconds, the keypad lock will not be

locked automatically after saving the keypad lock, you need to long

press # to enable the keypad lock.

b. Set another time (e.g., set 10 seconds), then the phone will be on lock after the set time (e.g., 10 seconds) in the standby state.

7. Press the Save soft key to save the settings.

When the keypad lock is in effect, the handset LCD display will indicate that the keypad is locked. At the same time, the softkeys change to Emergency (for emergency calls) and Unlock (for unlocking the keypad lock). This is shown in the figure below:

1052 ц× The keyboard is locked History Dir DND Menu

- Setting the keyboard lock through the web interface

1. Log in to the phone page by IP address.

2. Press Function (U) -> Keypad Lock (=).

3. Enable keyboard lock.

4. Select the keypad lock type.

5. To change the unlock code set the unlock code.

6. Enter the auto-lock time (0 $^{3}600$ seconds) in the keypad lock time input box.

a. If the setting time is O seconds, the keypad lock will not be

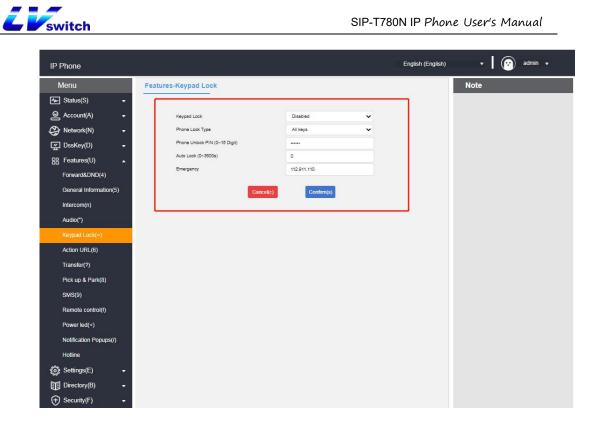
locked automatically after saving the keypad lock, you need to press and

hold $\#_{\text{see}}$ to enable the keypad lock.

b. Set another time (e.g., set 10 seconds), then the phone will be locked after the set time (e.g., 10 seconds) in the standby state.

7. Set the emergency call number.

8. Submit for save operation.



- Unlocking the keypad lock at the phone interface

1. Press the **Unlock** soft key or press any locked key, Menu key, Function key, All key.

- 2. Enter the Unlock PIN at Unlock PIN (default PIN: admin).
- 3. Press the **OK** soft key.

Standby interface unlock soft key disappears, that is, successfully

Instructions If you forget to unlock the PIN code, you can log in to the web interface to reset it.

unlocked, long press **#**_{SND} or wait for unlocking timing will lock the key again.

Power lamp

T780N can set the power lamp status, when the phone is in different states the power lamp display is different, it can also be set according to personal habits.

- Setting the power light on the web page

- 1. Log in to the phone page by IP address.
- 2. Click Function (U) \rightarrow Power Lamp (<).



- 3. Set the power lamp status.
 - a.Default power indicator.
 - b. Power light flashes when ringing.
 - c. When there are voice and text messages the power lamp flashes.
 - d. Power indicator flashes when muted.
 - e. Power indicator flashes while holding a call.
 - f. Turn on the power light when talking or dialing.
 - g. The power indicator light flashes when an incoming call is not

received.

4. Submit for save operation.

Common Power Light on	Disabled	~
Ringing Power Light Flash	Enabled	~
Voice/Text Mail Power Light Flash	Enabled	~
Mute Power Light Flash	Disabled	~
Hold/Held Power Light Flash	Disabled	~
Talk/Dial Power Light on	Disabled	*
MissCall Power Light Flash	Enabled	~

Backlight

The T780N can set the backlight status. You can turn off the backlight when the phone is in a silent state for N seconds, or you can set it according to your personal habits.

- Setting the backlight on the web page

- 1. Log in to the phone page by IP address.
- 2. Click Settings (E) \rightarrow Priority (i).
- 3. Set the backlight status.

a. Backlight time: Normal light / Normal dark / 10 seconds / 30

seconds / 1 minute / 2 minutes / 5 minutes / 10 minutes / 30 minutes.



Settings -	Dund	
Seminos	PIPI	erence

Automatic breathe out	Disabled	*	
Automatic exhaling startup time (1~14 sec	4		
Backlight Time	30s	~	
Ring Type	Ring1.wav	~	
Upload Ringtone	Select the file	Browser	Import
Upload BootUp	Select the file	Browser	Import
ScreenSaver Time	Disabled	~	
ScreenSaver Mode	System	~	
Upload ScreenSaver	Select the file	Browser	Import
watchdog	Enabled	~	

4. Submit for save operation.

Pop-up notification window

T780N can set the pop-up notification window, whether to display a pop-up box alert when the phone has unread calls or messages, or you can set it according to your personal habits.

- Setting up pop-up notification windows on web pages

- 1. Log in to the phone page by IP address.
- 2. Click Function (U) -> Popup Notification Window (/).
- 3. Set the popup notification window status.
 - a. Display the voice message pop-up window.
 - b. Show missed call pop-up window.
 - c. Display the Transferred Incoming Calls pop-up window.
 - d. Display a text message pop-up window.



	Display Voice Mail Popup	Enabled	~
play Forward Call Popup Enabled	Display Missed Call Popup	Enabled	~
	Display Forward Call Popup	Enabled	~
play Text Message Popup Enabled	Display Text Message Popup	Enabled	~

4. Submit for save operation.

Boot Picture

The T780N allows you to set the phone's power-up picture, which is displayed when the phone is powered up and started, according to your personal habits.

- Setting the boot image on the web page

- 1. Log in to the phone page by IP address.
- 2. Click Settings (E) -> Preference (i).
- 3. Import the boot image.
 - a. Requires a png image in the format 132*64.

Settings - Preference Automatic breathe out Disabled ~ Automatic exhaling startup time (1~14 sec... 4 Backlight Time 10s ~ Ring Type Ring1.wav v Upload Ringtone Select the file Bro Upload BootUp Select the file Browse ScreenSaver Time Disabled ~ ScreenSaver Mode System ~ Upload ScreenSaver Select the file Browser Import watchdog Enabled ~ 4. Submit for save operation.

screensavers



The T780N can be set up with a screensaver for the phone, which enters the screensaver mode when the phone has been inactive for a period of time, and can be set up according to your personal habits.

- Setting a screensaver on a web page

- 1. Log in to the phone page by IP address.
- 2. Click Settings (E) \rightarrow Priority (i).
- 3. Set the screen saver status.
 - a. Screen saver on time: 10 seconds/30 seconds/1 minute/2 minutes/5

minutes/10 minutes/30 minutes.

- b. Screensaver type: Custom/System.
- c. Screensaver image: 132*64px png format image.

Automatic breathe out	Disabled	~		
Automatic exhaling startup time	4			
Backlight Time	30s	~		
Ring Type	Ring1.wav	~		
Upload Ringtone	Select the file		Browser	Imp
Upload BootUp	Select the file		Browser	Imp
ScreenSaver Time	Disabled	~		
ScreenSaver Mode	System	~		
Upload ScreenSaver	Select the file		Browser	Imp
watchdog	Enabled	~		

4. Submit for save operation.

Power saving mode



The T780N can be set up with a power saving mode, which enters a hibernation state when the microphone is left inactive for a period of time, and can be set up as required.

- Setting the power saving mode on the web page

- 1. Log in to the phone page by IP address.
- 2. Click Settings (E) \rightarrow Power Saving Mode (&).
- 3. Set the power saving mode.
 - a. Power saving mode: enable/disable.
 - b. Working time: Define the working time for activating the power

saving mode.

c.Working timeout in idle state: default 960 range: 1-960 unit minutes.

d. Timeout in idle state during non-working hours: default 10 Range:1-10 unit minutes.



Setting-power save mode

power save mode	Disabled 🗸
orking hours	
Mon	7 19
Tue	7 19
Wed	7 19
Thu	7 19
Fri	7 - 19
Sat	7 - 7
Sun	7 - 7
ime out to enter power-saving mode (r	ninutes)
Working time Time out in the idle	960
Time out in the idle state	1

4. Submit for save operation.

Sound Settings

There are several sound settings inside the T780N, including the following:

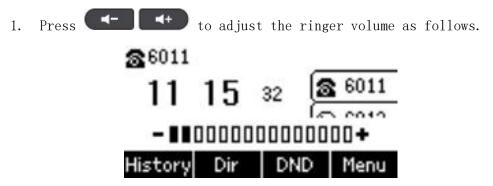
- <u>Volume settings</u>
- <u>Ringtone Setting</u>
- <u>keypad tone</u>
- <u>SMS alert tone</u>
- <u>signal tone</u>
- <u>Sound Gain</u>

Volume settings

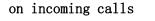


The T780N handset can set the ringing volume and the volume during the call, the volume setting range is 1-15, and the volume becomes larger with the value.

- Setting the incoming call ringer volume in standby/ringing mode



- Setting the volume of devices such as handset, speaker , headsets, etc.





- Setting the ringing method

1. The ringing method can be configured in Web Functions (U) \rightarrow Sound.

a) Using Handsfree: Handsfree ringing;

b) Using a headset: headset ringing;

c) Using headset group and handsfree: headset & handsfree

synchronized ringing;

2. Click Submit to save the configuration.

Note: The headset ringing method only works when the phone is in headset mode:

Ringtone Setting

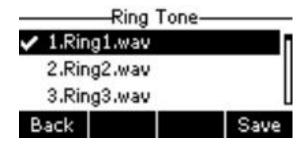
You can set different ringtones for your phone to distinguish incoming



calls. In addition to unified ringtones, you can also set different ringtones for contacts to distinguish incoming calls from different contacts. There are 10 default ringtones to choose from.

- Setting the ringtone for incoming calls in the phone interface

- 1. Press Menu->Settings->Basic Settings->Sound->Ringtone.
- 2. Press or for ringer selection.
- 3. Press the Save soft key to save the selected ringtone.



- Setting a contact's ringtone for incoming calls in a web browser
 - 1. Log in to the phone page by IP address.
 - 2. Press Contacts (B) \rightarrow Local Contacts (x).
 - 3. Add a contact or click a contact in the list to edit it.
 - 4. Ringtone selection box for ringtone selection for this contact.
- 5. Click the Add button if you are adding a contact, or click the Edit

button if you are modifying a contact.

IP Phone			English (English) 🔻	admin 🔻
Menu	Address book - local contacts			Note
⊶ Status(S) v	Local contact			Local Directory
🙆 Account(A) 🛛 🛨	Name : test person	Office Number : 123456	Mobile Number: 123456	The built-in phone directory can store the
🕃 Network(N) 🔹	Other Number: 123456	Ring : Ring1.wav 🗸		names and phone numbers of your cont
🛫 DssKey(D) 🛛 👻	Group Name : All Contacts 🗸	Account : Ring2.wav	Add Edit	You can add new gro and contacts, edit, de
₽ Features(U) -	Group Setting	Ring3.wav Ring4.wav Ring5.wav		or search for a contai You can import or exi
Settings(E) 🚽	Group Name :	Ring6.wav Select group : Ring7.wav	Ring : Ring1.way	the contact list.
Directory(B)		Ring8.wav Ring9.wav Ring10.wav	Edit Delete	 Please import excel, and other table files, the first line of the file
Address List(x)	Bulk Operation			must be seven fields _display_name,
Remote Phone Book(1)	Select the file :	Browser Import CSV	Export CSV	_office_number, _mobile_number, _other_number, _line
Phone Call Info(y)				_ring, _group_id_nam or the import will fail.
LDAP(I)	Index Name Office N	umber Mobile Number Other Numb	er Ring All Contacts 🗸	 User Group If you do not need to
Multicast IP(2)	1		0	change the user grou name, the change us
Settings(%)	2			group name field can left blank.
	3			
🕂 Security(F) 🔻	5			
	6			
	7			
	8			

Keypad tone

The phone will emit a key tone when the keypad keys are pressed to indicate that the key has been triggered, and the key tone can be enabled and disabled through the settings.

- Setting the phone key tones through the phone interface

1. Press Menu->Settings->Basic Settings->Sound->Key Tone.

2. Press the **Switch** soft key to enable and disable the state of the key tone.

3. Press the Save soft key to save the operation.

	Key Tone
1.Key To	ne:
enable	+
ack	Switch Sav

SMS alert tone

Whether or not to play a "drop" tone when the phone receives a voice message or text message can be turned on or off from the web page.



- Setting SMS alert tones via web browser

- 1. Log in to the phone page by IP address .
- 2. Press Function (U) \rightarrow Basic Information (5).
- 3. Configure to turn on or off the voice message tone and SMS alert

tone.

- a) Enable/disable voice message tones;
- b) Enable/disable SMS alert tone;
- 4. Press the **Confirm** button to save.

Reboot in Talking	Disabled	
Hide Feature Access Codes	Disabled	
Display Method on Dialing	User Name	
RPort	Enabled	
Channel Mode	Normal Mode	
SMS Beep	Disabled	

Signal tone

An audible signal sent by the switch to the user to indicate that the phone is in a certain state. The signal tone follows a uniform standard in each device, and you can customize the signal tone according to the national standard, or customize the signal tone; the lower the value, the more subdued the signal tone.

- Setting the signal tone through the web browser



1. Log in to the phone page by IP address .

2. Press Setup (E) -> Signal Tone (q).

3. According to the national standard please select the country. If you want to customize the signal tone, select custom in the country option.

4. Selecting Custom requires you to fill in your own values to change the signal tone.

5. Press the Submit button to save.

IP Phone				English (English)	- I @	admin 👻
Menu	î	Settings - tones			N	ote
Status(S)	•	Select Country :	United States	• ?		Tones
Account(A)	-	Dial :		0		The tones parameters for administrator.
Network(N)	-	The Second Dial :		0		
도 DssKey(D)	-	Ring-Back Tone :		0		
E Features(U)	÷ .	Busy Tone :		?		
 ද ີ Settings(E)		Congestion :		?		
Preference(i)		Call Waiting :		0		
		Dial Recall :		0		
Time & Date(t)		Info :		0		
Upgrade(u)		Stutter :		(?)		
Configuration([)		Message :		?		
Tones(q)		Auto Answer :		(?)		
Voice(;)		Stutter Dial :		?		
Dial Plan(k)			Cancel(c) Confirm(s)			
TR069(\)			Cancel(c)			
Call Display(^)						
Auto Provision(3)					

- Signal Tone Types Introduction and Standards

signal tone	frequency	Transmit frequency (dBmO)	clarification
Dial tone	450±25	-10 ± 3 dBmO	Used to notify the calling subscriber that they are ready to dial
redial	450 ± 25	-10 ± 3 dBmO	Tone on second dialing
ring-back tone	450±25	-10 ± 3 dBmO	Indicates that the called subscriber is in the ringing state
busy signal	450±25	-10±3dBm0	Indicates that the line is busy or the called subscriber is busy for this connection.
network congestion	450 ± 25	-10 ± 3 dBmO	Indicates that this connection is



tone			experiencing line congestion
Call Waiting	450 ± 25	-10 ± 3 dBmO	Indicates that the phone is on call waiting
callback tone	450 ± 25	-10 ± 3 dBmO	Indicates that the phone is in the callback state
Special information	450 ± 25	-10 ± 3 dBmO	Beep when you receive a special message
Voice mail alert tone	450 ± 25	-10 ± 3 dBmO	Tone when you receive a voicemail message
message tone	450 ± 25	-10 ± 3 dBmO	Tone for incoming messages
auto-answer	450 ± 25	-10 ± 3 dBmO	In auto answer state beep
Voice Message Callback	450 ± 25	-10 ± 3 dBmO	Voice mail callback tone

Sound Gain

- Setting the sound through a web browser

- 1. Log in to the phone page by IP address .
- 2. Press Settings (E) \rightarrow Voice (;).
- 3. Configure echo cancellation and RTP jitter buffers as required.
- 4. Press the **Submit** button to save.



ECHO Enabled	1 200	
	d 🗸	
VAD Disable	d 🗸	
CNG Enabled	d 🗸	
Jitter Buffer		
Type Adaptiv	e 🗸	
Min Delay 60		
Max Delay 240		

- Setting the sound gain through the web browser

- 1. Log in to the phone page by $\operatorname{IP}\operatorname{address}$.
- 2. Press Function (U) \rightarrow Sound (").
- 3. Configure the sound input/output values as required.
- 4. Press the **Submit** button to save.



Features-Audio

Hands free volume input	34	~
Headphone volume input	26	~
Handle volume input	14	~
Headphone volume output	0	~
Handle volume output	0	~
Ringer Device for Headset	Use Speaker	~

Contact Management

Contact management for the T780N IP Phones consists mainly of:

- <u>local contact</u>
- <u>blacklists</u>
- <u>LDAP settings</u>
- <u>Call History</u>
- <u>remote address book</u>
- <u>Update Address Book</u>
- <u>set up</u>

local contact

Local Contacts can save the contact's name, internal extension number, cell phone number, etc. T780N supports saving 1000 local contacts and 10 contact groups (including default groups). It supports contact adding group, editing, setting ringtone, setting account number, editing contact and other operations.



Add Group

- Adding a group by phone

- 1. Press the softkey Directory->Local Contacts->Add Group.
- 2. Enter the group name in the Group Name input box.
- 3. Press the Save soft key to save the group.

	-Add	Group	84
Name	:		
	2		
Back	2aB	Delete	Save

- Adding Groups via Web Browser
 - 1. Log in to the phone page by IP address.
 - 2. Click Contacts (B) \rightarrow Local Contacts (x).
 - 3. Enter the group name in Group Name.
 - 4. Click the Add button to add a group.

IP Phone			English (English) 🔹 🔻	admin 👻
Menu	Address book - local contacts			Note
M→ Status(S) →	Local contact			Local Directory
	Name :	Office Number : Mobile Number		The built-in phone directory can store the
😂 Network(N) 🗸	Other Number :	Ring : Ring1.wav		names and phone numbers of your contacts
또 DssKey(D) ▼	Group Name : All Contacts	Account : Account1 V Add	Edit	You can add new groups and contacts, edit, delete
₽ Features(U) -	Group Setting			or search for a contact You can import or export
دریکی Settings(E) →	Sroup Name : 111	Select group : All Contacts V Ring :	Ring1.wav 🗸	the contact list.
Directory(B)		2 Add Edit	Delete	 Please import excel, CSV and other table files, and the first line of the file
Address List(x)	Bulk Operation			must be seven fields of _display_name, office_number,
Remote Phone Book(1) Phone Call Info(y)	Select the file :	Browser Import CSV Export CSV		_onbei_number, _other_number, _line, _ring, _group_id_name, or the import will fail.
LDAP(I)	Index Name Office Number	er Mobile Number Other Number Ring	All Contacts 🗸	 User Group If you do not need to
Multicast IP(2)	1		0	change the user group name, the change user
Settings(%)	3			group name field can be left blank.
(+) Security(F) 🗸	4			
	5		0	
	6			
	7		Π	



Description of T780N T780N can add up to 9 groups, and the default group All Contacts, a total of 10 groups, and then add a group will prompt "group is full, can not add", if you need other groups, please edit the group or delete the original group and then add.

Edit Group

- Group editing via phone (default grouping cannot be edited)
 - 1. Press the Directory->Local Contacts soft key.
 - 2. Press or to select the group to be edited.
 - 3. Press the softkey **Options->Details** to enter the edit screen.

4. Enter a new group name in the Group Name edit box (only English can be entered in the phone interface).

5. Press the Save soft key to save the group.

	Gro	oup2——	82
Name	:		
Group	1		
Back	2aB	Delete	Save

- Editing of groups via web browser (default groupings cannot be edited)
 - 1. Log in to the phone page by IP address.
 - 2. Click Contacts (B) \rightarrow Local Contacts (x).
 - 3. Select the group.

4. After selecting, choose the group to become the input mode, and modify it to the name you want to change.

5. Click the Edit button to make changes.

IP Phone			English (English) 🔹 🔻	admin 👻
Menu	Address book - local contac	ts		Note
- Status(S) -	Local contact			Local Directory
	Name :	Office Number : Mobile Nun	nber :	The built-in phone directory can store
Network(N) -	Other Number :	Ring : Ring1.wav		names and phone numbers of your co
∰ DssKey(D) ▼	Group Name : All Contacts 🗸		dd Edit	You can add new g and contacts, edit,
E Features(U) ▼	Group Setting	0		or search for a con
క్లి కి Settings(E) 🗸 🗸	Group Name :	Select group : 111 V Ring :	Ring1.way	You can import or the contact list.
Directory(B)			dit Delete	 Please import exce and other table file
Address List(x)				the first line of the must be seven field display name,
Remote Phone Book(1)	Bulk Operation			_office_number, mobile_number,
Phone Call Info(y)	Select the file :	Browser Import CSV Export CSV	-	_other_number, _l _ring, _group_id_n or the import will fa
LDAP(I)	Index Name Of	ffice Number Mobile Number Rin	g All Contacts 🗸 🗌	User Group
Lord (i)	1			If you do not need change the user gr name, the change
Multicact IP(2)				group name field c
Multicast IP(2) Settings(%)	2			left blank.

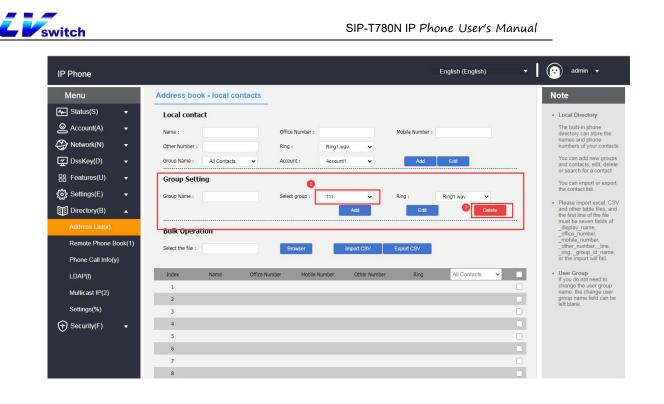
Delete Groups

- Deletion of groups via the phone (default groups cannot be deleted)
 - 1. Press the Directory->Local Contacts soft key.
 - 2. Press or to select the group to be deleted.
 - 3. Press the **Option** soft key.
 - 4. Press or to select the delete option.
 - 5. Press the **OK** soft key to delete.

To delete all contacts, press Options \rightarrow Delete All.



- Deletion of groups via web browser (default groups cannot be deleted)
 - 1. Log in to the phone page by IP address.
 - 2. Click Contacts (B) \rightarrow Local Contacts (x).
 - 3. Select the group in the Groups module.
 - 4. Click the Delete button in the Group Settings module to delete it.



Description If a group is deleted, the contacts in the deleted group will be grouped into the default group "All Contacts".

Add Contact

Contacts can be added in the following three ways:

- Add manually
- batch import
- Add from call log

- Adding a contact via call history through a phone interface

- 1. Press the **History** soft key in standby.
- 2. Press or to select the number to add as a contact.
- 3. Press the softkey Options \rightarrow Add to Contacts.

4. Press or to complete the contact information (name, group).

5. Press **OK** to save the contact.



All F	Records-	1/94
Detail		0
Add to Conta	cts	
Add to Blackl	ist	
Cancel		OK

- Adding contacts via local contacts in the phone interface

1. Press Directory->Local Contacts->All Contacts softkey in standby

interface (or press Menu->Address Book->Local Contacts).

2. Press or to select the group to which you want to add

contacts.

3. Once in the group, press the Add soft key to enter the Add screen.

4. Press or to fill in the contact information (name, phone number, you can switch to another group).

5. Press the **Save** soft key to save the contact.



- Adding contacts via web browser

- 1. Log in to the phone page by IP address.
- 2. Click Contacts (B) \rightarrow Local Contacts (x).
- 3. Local Contacts module fills in the contact information.
- 4. Click the Add button in the Local Contacts module to add it.

		Note
⊷ Status(S) 🗸	Local contact	Local Directory
	Name : test person2 Office Number : 1234567 Mobile Number : 123456	The built-in phone directory can store the
	Other Number : 123456 Ring : Ring1.wav	names and phone numbers of your contact
ᇁ DssKey(D) ▼	Group Name : All Contacts 🗸 Account : Account1 🗸 Add Edit	You can add new group and contacts, edit, dele
B Features(U) →	Group Setting	or search for a contact
້ວງ Settings(E) 👻	Group Name : Select group : All Contacts V Ring : Ring 1 wav V	You can import or expo the contact list.
Directory(B)	Add Edt Delete	 Please import excel, Cland other table files, and
Address List(x)		the first line of the file must be seven fields of display name,
Remote Phone Book(1)	Bulk Operation	office_number, mobile_number, other_number, line,
Phone Call Info(y)	Select the file : Import CSV Export CSV	
LDAP(I)	Index Name Office Number Mobile Number Other Number Ring All Contacts 🗸 🔳	User Group
	1	If you do not need to change the user group name, the change user
Multianet ID(2)	2	group name field can be
Multicast IP(2)	2	
Multicast IP(2) Settings(%)	3	left blank.
		left blank.

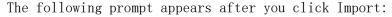
- Bulk import of contacts via web browser

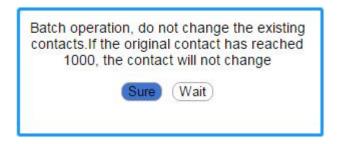
switch

- 1. Log in to the phone page by IP address.
- 2. Click Contacts (B) \rightarrow Local Contacts (x).
- 3. Batch operation module click CSV format export contact template.
- 4. Add/edit contact information in the form.
- 5. Batch operation module click Browse to find the CSV file to be imported, click **CSV format to import to** add contacts.

(Currently only supports importing xls, csv, xlsx file types) .

X II		(⇒ ÷ ≑					导出	d.csv - Excel						? 🖭		٦.
文	件开始	插入	页面布局	公式	数据 审	间 视图									登	绿
4 [[初]		除体 B <i>I <u>U</u> →</i>		12 • A [*]					₹ 00.00 •00	 28 29 29 20 <li< th=""><th>翻插入 → 診劃除 → 圓格式 →</th><th>∑ - ↓ - ∢ -</th><th>A ∠▼ [序和筛选 查抄</th><th>計 和选择</th><th></th><th></th></li<>	翻插入 → 診劃除 → 圓格式 →	∑ - ↓ - ∢ -	A ∠▼ [序和筛选 查抄	計 和选择		
힝	贴板 「」		字体		r _a	对齐方式	r ₅₁	数字	5	样式	单元格		编辑			
1		: ×	√ f _x	_displ	ay_name											
	Α	В	С	D	E	F	G	Н	1	J	K	L	н	N		0
		_office_r		_other_n	_line	_ring	_group_i	d_name								
1	联系人2	12345	12345	12345	1	Ring1	办公室B									
	联系人1	12345	12345	12345	1	Ring1	办公室A									
63																







Edit Contact

- Editing contacts through the phone interface

1. In standby mode, press Directory->Local Contacts softkey (or Menu-

>Address Book->Local Contacts)->All Contacts.

- 2. Press or to select the contact name to edit.
- 3. Press the softkey **Options->Details** to enter the contact editing

page.

- 4. Press or to select the contact information to edit.
- 5. Press **OK** to save the editing operation.

	-Pe	tter——	
Name			
Jack			
Back	abc	Delete	Save

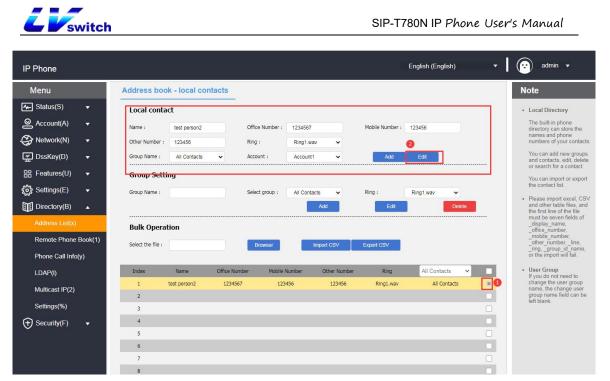
- Editing contacts via web browser

1. Log in to the phone page by IP address.

2. Click Contacts (B) -> Local Contacts (x).

3. Tap the contact you want to edit in the contact list below, and the information will be filled into the local contact module.

- 4. Modify the contact's information in the Local Contacts module.
- 5. Click the Edit button to save the editing operation.



Delete Contacts

- Deleting contacts through the phone interface
 - 1. In standby mode, press Directory->Local Contacts softkey (or Menu-

>Address Book->Local Contacts)->All Contacts.

- 2. Press or to select the contact name to delete.
- 3. Press Options->Delete/Delete All.

4. Press the **OK** soft key to delete.

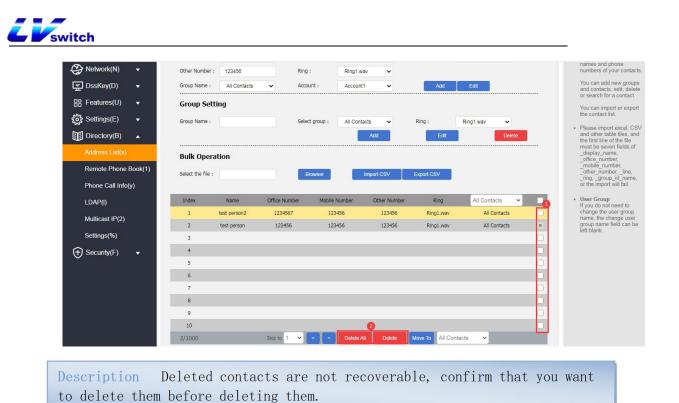


- Deleting contacts via web browser

1. Log in to the phone page by IP address.

- 2. Click Contacts (B) \rightarrow Local Contacts (x).
- 3. Tap the contact you want to delete in the contact list below.

4. Click the **Delete/Delete All** button under the list to delete the contact.



Call a contact person

- Calling local contacts through the phone interface
 - 1. In standby mode, press the softkey Directory->Local Contacts (or

Menu->Address Book->Local Contacts)->All Contacts.

2. Press or to select the name of the contact to call.

3. Press the Send soft key to enter the contact number list.

4. Press or to select the number you want to call to make

the call.

5. Press the **Send** soft key to make a call.

D	ial
Office Number:	634411
Mobile Number:	13436908521

Blacklists

The T780N can save up to 30 blacklisted contacts, and phone numbers with

blacklists set will be automatically rejected by the phone.

Add Blacklist

- Adding a blacklist through the phone interface

1. In standby mode, press the softkey Menu->Address Book->Blacklist-

>Add.

2. Press or to select Edit Blacklist Information (Name,

Number).

3. Press the Save soft key to save the changed blacklist members.

1792	-Add B	lacklist—	1
Name	:		
Pette	er		
Back	abc	Delete	Save

- Adding blacklists from call history through the phone interface

- 1. Press the History soft key in standby.
- 2. Press or to select a number to add to the blacklist.

3. Press the softkey Options \rightarrow Add to Blacklist.

- 4. Completion of information on blacklisted members.
- 5. Press **OK** to save the blacklist.



- Blacklisting via web browser
 - 1. Log in to the phone page by IP address.
 - 2. Click Contacts (B) \rightarrow Local Contacts (x).

3. Fill in the name and phone number to be added to the blacklist in the Local Contacts module, and select the grouping as BlackList (BlackList).



IP Phone							l	English (English)	.	iadmin 👻
Menu		Address boo	k - local co	ntacts						Note
▲ Status(S)	-	Local conta	ct							 Local Directory
Account(A)	•	Name :	blacklist	c	office Number : 111		Mobile Number :	111		The built-in phone directory can store the
Network(N)	•	Other Number :	111	a R	ing : Ring	g1.wav 🗸				names and phone numbers of your contacts.
또 DssKey(D)	•	Group Name :	Blacklist All Contacts	▲	ccount : Acc	ount1 🗸	Add	Edit		You can add new groups and contacts, edit, delete or search for a contact
B Features(U)	•	Group Sett	TO LOT THE OWNER OF							You can import or export
ද්රී Settings(E)	•	Group Name :		s	elect group : All (Contacts 🗸	Ring :	Ring1.wav 🗸		the contact list.
Directory(B)	•					Add	Edit	Delete		 Please import excel, CSV and other table files, and the first line of the file
Address List(x)		Bulk Opera	tion							must be seven fields of _display_name, office_number,
Remote Phone E	Book(1)	Select the file :		_	Browser	Import CSV	Export CSV			_mobile_number, _other_number, _line,
Phone Call Info()	y)									_ring, _group_id_name, or the import will fail.
LDAP(I)		Index	Name	Office Number	Mobile Number	Other Number	Ring	All Contacts 🗸		User Group If you do not need to
Multicast IP(2)		1	test person2	1234567	123456	123456	Ring1.wav	All Contacts		change the user group name, the change user
		2	test person	123456	123456	123456	Ring1.wav	All Contacts		group name field can be left blank.
Settings(%)		3								
Security(F)	-	4								
		5								
		6								
		7								
		8								

4. Click the Add button to save the blacklisted contacts.

Delete Blacklist

- Blacklist removal through the phone interface
 - 1. In standby mode, press the softkey Menu->Contacts->Blacklist.
 - 2. Press or to select the blacklist member to be deleted.
 - 3. Press Options->Delete/Delete All.
 - 4. Press the **OK** soft key to delete.



- Blacklist removal via web browser

- 1. Log in to the phone page by IP address.
- 2. Click Contacts (B) \rightarrow Local Contacts (x).
- 3. Select BlackList in the drop-down box below the contact list.
- 4. Check the blacklists to be deleted.
- 5. Click the Delete/Remove All button under the list to remove the

blacklist.

8								phone numbers of your
🕞 Network(N) 🛛 🗕	Other Number			Ring : R	ting1.wav 🔹			contacts.
🛫 DssKey(D) 🛛 👻	Group Name :	Blacklist			ccount1 🔹	Add	Edit	 You can add new group contacts, edit, delete o
Bartures(U) →	Group Set							search for a contact You can import or expo
දිරී Settings(E) 🚽	Group Name :			Select group : A	Il Contacts 🔻	Ring :	Ring1.wav •	contact list.
Directotries(B)					Add	Edit	Delete	 Please import excel, C and other table files, ar first line of the file mus
AddressList(x)	Bulk Oper	ation						 seven fields of _display_name, _office_number.
Phone Call Info(y)	Select the file :			Browser	Import CSV	Export CSV		_mobile_number, _other_number, _line, _
🕂 Security(F) 🗸				biotisci	Importoov	CAPOR OUV	0	_group_id_name, or the import will fail.
	Index	Name	Office Number	Mobile Numb	er Other Number	Ring	Blacklist 🔹	 User Group If you do not need to cl
	1	blacklist	1111	1111	1111	Ring1.wav	All Contacts Blacklist	the user group name, the change user group name
	2	blacklist2	123456	123456	123 <mark>4</mark> 56	Ring1.wav	1111	can be left blank.
	3	blacklist3	1234567	123456	123456	Ring1.wav	Blacklist	
	4	blacklist4	123456	123456	123456	Ring1.wav	Blacklist	
	5	blacklist5	123456	123456	123456	Ring1.wav	Blacklist	
	6	blacklist6	1111	1111	1111	Ring1.wav	Blacklist	
	7	blacklist7	1111	1111	1111	Ring1.wav	Blacklist	
	8	blacklist8	1111	1111	1111	Ring1.wav	Blacklist	
	9	blacklist9	1111	1111	1111	Ring1.wav	Blacklist	
	10	blacklist10	1111	1111	1111	Ring1.wav	Blacklist	

LDAP Configuration

Functional Description

LDAP (Light Directory Access Protocol) is an application layer protocol that runs over IP networks and provides a range of functions for accessing and maintaining distributed directory information services. Simply put, LDAP is a fast way to get centralized static data about people or resources, and is most useful for storing information that needs to be read from different locations, but doesn't need to be updated often. LDAP is very effective at storing a company's employee phone book and organizational charts, and is especially handy for querying information.

For example: in accordance with the tree structure, the root of the tree is the name of the company, the next logical branch out of the various departments, departments can be branched out of the next various employees can be in a certain range in accordance with specific rules to retrieve contacts, such as retrieval of a company's hardware department name contains "J" of the employees.

You can configure the phone to connect to an LDAP server that supports LDAPv2 or LDAPv3. The phone supports the following LDAP servers: Microsoft Active Directory Sun ONE Directory Server Open LDAP Directory Server Microsoft Active Directory Application Mode (ADAM)

The biggest advantage of LDAP is that users can quickly find contacts from the LDAP server without the need to maintain a local phonebook. The



contact information returned by the LDAP server is read-only.Users can call the LDAP contacts, but they cannot add, edit, or delete LDAP contacts.Administrators can configure the LDAP query filter conditions on the phone, such as displaying the contact information and how to sort the contacts. The administrator can configure the filters for LDAP query on the phone, such as the number of contacts to be displayed, the information to be returned, and how to sort the contacts, etc. SIP-T780N series IP phones perform LDAP search on the phone: Enter the search directly into the pre-dial/dialing screen (make sure LDAP is enabled on the caller's contact match list) and the phone will perform a query from an LDAP server. If results are available, they are displayed on the LCD screen and the user can select a contact and initiate a call.

Press LDAP programmable button or press Menu->Contacts->LDAP, enter the content to be searched in the LDAP search interface, the phone will query the related contacts from the LDAP server and display them on the LCD interface, the user can select a certain contact and initiate a call, or add the contact to the local address book or black list. The phone sends a search request to the LDAP server, which searches all contacts based on the search input and configured filters, and then returns the matching results to the phone.

Configuring the LDAP Server

The following examples are for reference only. You can modify the LDAP attribute values according to your specific needs.

- 1. Open the Web interface of the phone and log in.
- 2. Click Contacts -> LDAP.
- 3. Configure the LDAP service. The example is as follows:



IP Phone			English (English)	• 🕜 admin •
Menu	LDAP			Note
- Status(S) -	LDAP			• LDAP
Secount(A) 🗸	Enable LDAP:	Enabled		LDAP (Lightweight Directory Access Protocol) is an application protocol for accessing and maintaining information
S Network(N) -	Label:	LDAP		services for the distributed directory over an IP network.
또 DssKey(D) 🗸	LDAP Name Filter:	CallerIDName=%		
Beatures(U) ✓	LDAP Number Filter:	AccountNumber=%		
కోస్టి Settings(E) 🗸	LDAP TLS Mode:	LDAP		
Directory(B)	Server Address:	192.168.17.30		
Address List(x)	Port:	389		
	Base	dc=pbx,dc=com		
Remote Phone Book(1)	User Name:			
Phone Call Info(y)	Password:			
LDAP(I)	Max.Hits(1~1000):	50		
Multicast IP(2)	LDAP Name Attributes:	CallerIDName Email Department FirstNar		
Settings(%)	LDAP Number Attributes:	AccountNumber MobileNumber HomeNu		
🕂 Security(F) 🗸	LDAP Display Name:	%FirstName		
() Security(i)	Protocol:	Version3		
	LDAP Lookup For Incoming Call:	Enabled		
	LDAP Lookup for Callout:	Enabled Y		
	LDAP Sorting Results:	Enabled V		
		confirm(s)		

LDAP Setup Instructions

LDAP settings	clarification	typical example
Start LDAP	Enables or disables LDAP function.	Enable
LDAP Tags	Fill in the name of the phone book.	Telephone Directory
LDAP Name	Sets whether or not the phone can	(CallerIDName=%)
Filtering	search for contact information by	
	"Nickname" or "Last name".	
	* stands for any letter.	
	The % represents the string $\ensuremath{entered}$	
	and is ${\sf used}$ to filter the prefix	
	criteria.	
LDAP Number	Set whether the phone can search for	(AccountNumber=%)
Filtering	contact information by "Cell phone	
	number, office number, or home number".	
	* stands for the arbitrary letter.	
	$\%$ represents the string and is \ensuremath{used}	
	to filter the prefix criteria.	
LDAP encrypted	Set how the LDAP server connects to	LDAP
transfer mode	the IP phone:	
	(1)LDAP	
	<pre>②LDAP TLS Start</pre>	
	(3)LDAPS	
	Note: The S-Series small and medium	



	IPPBX supports LDAP protocol.	
LDAP server	Fill in the IP address of the PBX.	192. 168. 17. 30
address		
Ports	Fill in the LDAP server address port.	389
Base	 Fill in the root node of the LDAP server or one of the phonebook nodes from which the LDAP server will start searching for contacts. (1) Fill in the directory node of the LDAP server, and the LDAP server will search for contacts from all phone books. (2) Fill in a certain phonebook node, and the LDAP server will search for contacts from this phonebook. 	dc=pbx, dc=com
User Name	Fill in the USEr name of the LDAP server.	Username provided by the LDAP server
Password	Fill in the password for the LDAP server.	Password provided by the LDAP server
Maximum number of hits (1~1000)	Set the maximum number of entries in the LDAP server search results.	50
LDAP Name Attributes	Set the name attribute to be acquired. Multiple name attributes can be set, separated by spaces.	CallerIDName Email Department FirstName LastName
LDAP Number Properties	Set the number attributes to be acquired. Multiple number attributes can be set, each separated by a space.	AccountNumber MobileNumber HomeNumber Fax
LDAP Display Name	Set the name to be displayed for LDAP server search results. The display name format must begin with %.	%FirstName
protocol version	The version of the LDAP server protocol. Note: The S-Series small and medium IPPBX supports version 3.	3
LDAP Matching Call	Sets whether or not LDAP searches are	Enable
LDAP Outbound Queries	performed on incoming calls. Set whether to search for numbers in the LDAP phonebook when making a call.	Enable



LDAP Search	Sets whether or not the search	Enable
G	results are sorted in numeric or	
Sorting	alphanumeric order.	

Search for LDAP contacts via Address Book

- Enabling LDAP Phonebook

- 1. Log in to the phone web interface and click Contacts -> LDAP.
- 2. Enable LDAP phonebook.
- 3. Click Submit.

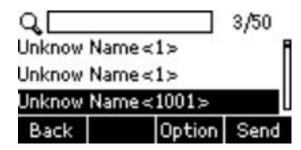
- Search LDAP Contacts

1. Log in to the phone's web interface and click Menu \rightarrow Contacts \rightarrow

LDAP.

2. Enter the number or name of the contact, and the contact information that matches the search criteria is displayed on the screen.

- 3. Use or to select a contact.
- 4. Press the Send soft key to initiate a call.



Call Record Management

T780N's call records contain dialed numbers, missed calls, received calls, and transferred calls. Each record supports up to 300 records. You can view, delete, add contacts, add blacklists, and so on. For more information about the operation of contacts, please see<u>Contacts</u> <u>Management</u> section.

- Viewing the call record through the phone interface

1. Press the **History** soft key, the LCD display shows a list of numbers for the recent call records.

2. Press or represent to select the record you want to view.

3 Press the softkey **Options->Details.** Details of the record can be viewed.



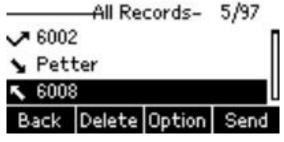
	60	02	
1.Name:	6002		
2.Numbe	er:6002		
3.Time:	09-19 1	1:33:23	U
Back	Edit		Send

- Viewing of call history through a web browser
 - 1. Log in to the phone page by IP address.
 - 2. Click Contacts (B) \rightarrow Call History (y).

IP Phone				English (English)	- I (🧿 admin 🔻
Menu	Phone Call Info				Note	
Status(S)	Call Panel					
Account(A)	Dial Number		Dial Hang	Up		
Network(N) +	Outgoing Identity	6002@192.168.0.188	~			
🛫 DssKey(D) 🗸	Call Log					
E Features(U)	Dialed List					
දිද්දී Settings(E) 🗸	Index Date	Time Name	Number			
Directory(B)	1 Sat May 21	17:11 8008	8008	*		
Address List(x)	2 Sat May 21	16:13 15989960	943 15969960943	l i		
Remote Phone Book(1)				*		
Phone Call Info(y)	Missed List					
LDAP(I)	Index Date	Time Name	Number			
Multicast IP(2)						
Settings(%)				-		
🕀 Security(F) 🗸	Received List					
	Index Date	Time Name	Number			
	1 Mon May 23	10:30 8008	8008	^		
	Forwarded List			*		
	r or war dod List					

- Calls made through call record

- 1. Press the **History** soft key while the phone is in standby.
- 2. Press or to select the number to dial.
- 3. Press the **Send** soft key to dial.



- Calls made through the web page
 - 1. Log in to the phone page by IP address.
 - 2. Click Contacts (B) -> Call History (y).
 - 3. Enter the call number and press Dial to send the call.

Switch		SIP-T780N	NIP Phone Us	ser's Manual	
	192.168.17.7 Successful op			sh (English)	•
Phone Call Info			ett		
Call Panel					
Dial Number		1051		Dial Hang Up	
Outgoing Ide	ntity	1052@192.168.17.3	~		
Call Log					

Remote address book

Functional Description

Remote Phone Book (Remote Phone Book) from the name can be visualized as a remote access address book. Administrators need to add the established format of XML to the remote server. The phone achieve the purpose of expanding the scope of the address book by accessing the remote address book. It is mainly used in the enterprise to facilitate the update of the enterprise address book, maintenance at the same time can save the phone's memory to do a double whammy.

The phone supports accessing the XML file on the HTTP/HTTPS/FTP/TFPT server, reading the contact information in the XML file and displaying it on the screen of the phone to realize the remote address function.

XML format



Phone Configuration Remote Address Book

1. Put the XML complying with rules to the remote server that can be accessed. (About server building there is a detailed description in the automatic update chapter, do not repeat here).

- 2. Web page click Address Book -> Remote Address Book.
- 3. Configure the remote address book service. An example is shown below:



Directory-Remote Phone Book

dex	Remote URL	Disp	lay Name
1	http://192.168.17.103:8099/lvswitche.x	ml 远程地址薄	
2	ftp://192.168.17.103/lvswitche.xml	Remote Book	
•			
5			
Incoming	/Outgoing Call Lookup	Enabled	~

Using the Remote Address Book

- View Remote Address Book

1. Press Phone Menu -> Directory -> Remote Address Book.

2. Use or to select the list.

4. Press the **Enter** soft key to view the corresponding remote address book.

	1/2
远程地址薄	
Remote Book	
	L.
Back Update Search	Enter

- Search Remote Address Book

1. Press Phone Menu -> Directory -> Remote Address Book -> Search.

2. Enter the number or name of the contact, and the information of the contact that matches the search criteria is displayed on the screen.

3. Use or to select a contact.

4. Press the Call soft key to initiate a call.

5. Press the **Options** soft key to view the contact information or add to Contacts/Blacklist.



QI			0/8	
SIP1				
张一				
张二				
Back	123	Delete		

Update Address Book

- Remote updating of address book via web page

The Remote Update Contacts feature makes it easy to update local contacts without having to maintain a separate address book for each person. Files with the same MobileNum contacts in front will be overwritten by the later contacts.

- 1. Log in to the phone page by IP address.
- 2. Click Address Book (B) -> Remote Update Address Book.
- 3. Configure updated address book information.
 - a) Server URL: support http/https/ftp/tftp path;
 - b) Automatic update: enable/disable;
 - c) Time: Fixed time of the day;
 - d) Update Now: Click the button to update automatically;

late Directory		
Server URL		
Auto Provision	Disabled	~
Time	0:0:0	
Update now	Update now	

4. Click Submit to save the configuration.

The file format is as follows, just upload it to the server after configuration.



```
<?xml version="1.0" encoding="utf-8"? >
<all>
<PhoneBooks>
<book FirstName="adm" LastName="gj" MobileNum="456" OfficeNum="123" OtherNum="789"
/>
</PhoneBooks>
</all>
```

Address Book Settings

The T780N phone supports Address Book Enable/Disable and Caller Contact Match List Enable/Disable.

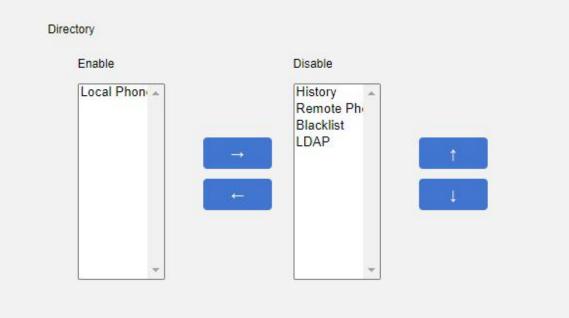
- Enable/Disable Address Book via Web

1. Log in to the phone page by IP address.

2. Click Contacts (B) \rightarrow Settings (%).

3. Select the address book you want to enable, you can set local contacts, call history, remote address book, blacklist, LDAP.

4. Adjust the sorting by $\uparrow \downarrow$ key and then submit;



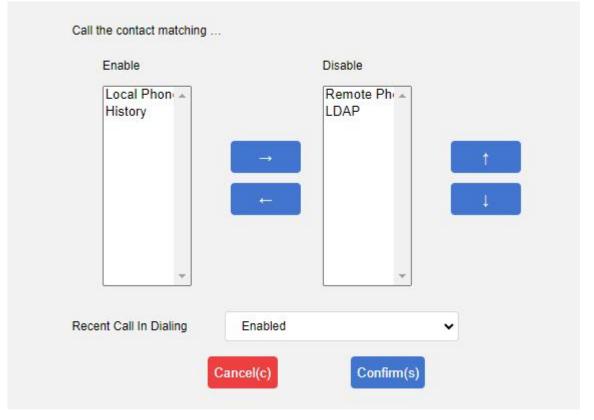
- Enable/disable caller contact matching via web page

- 1. Log in to the phone page by IP address.
- 2. Click Contacts (B) \rightarrow Settings (%).

3. Select the matching list of caller contacts to be enabled, you can set local contacts, call logs, remote address book, LDAP.



4. Adjust the sorting by $\uparrow \downarrow$ key and then submit;



Accessory Customization

The T780N can be used with a variety of accessories, the main ones are listed below:

- <u>headset</u>
- <u>extension desk</u>

Headset use

The T780N can be used with a headset. Before using the T780N, you need to connect the headset and activate the headset mode by using the function

button (Headset) on the panel of the phone, for the installation of the headset, please see <u>Headset Installation</u> chapter.

- Activate headset mode

1. Press the key (Headset) on the faceplate of the phone.

The icon in the upper right corner on the LCD screen changes to



the headset icon Ω .

When the handset receives an incoming call, press the Answer soft key to answer the call and the phone automatically enters headset talk mode.

Dial a number and press the Send key, the phone will

automatically make a call using the headset mode.

- Exit headset mode:

1. Press the key (Headset) on the faceplate of the phone.

The LCD screen displays the icon in the upper right corner changed



- Dual headset mode:

To use dual-headset mode the phone must be accessed headset and handle simutaneously, after successful configuration one can hear and speak over the headset, but one can only listen to via handle.

- 1. Log in to the phone page by IP address.
- 2. Click on Functions (U) \rightarrow Basic Information (5).
- 3. Configure to enable/disable the dual headset feature.
- 4. Click Submit to save the configuration.

Allow Mute	Enabled	~
Dual Headset	Disabled	v
Auto Answer Delay	1	
Headset Prior	Disabled	~
Fwd International	Enabled	~

Description The Dual Headset feature can only be configured via the web and must be accessed with both the handle and the headset.

The headset mode needs to be activated when the phone needs to be used when the configuration is successful.

No response from picking up and putting down the handle after turning on the dual headset mode.



- Headphones are preferred:

The Headset Priority feature is for those who use headphones frequently

or full-time.

- 1. Log in to the phone page by IP address.
- 2. Click on Functions (U) \rightarrow Basic Information (5).
- 3. Configure to enable/disable the headset priority feature.
- 4. Click Submit to save the configuration.

Auto Answer Delay	1	
Headset Prior	Disabled	~
Fwd International	Enabled	~
Diversion/History-Info	Enabled	~

Extension desk

Expansion stations greatly enhance the functionality and expandability of the T780N. Each Expansion Station has 32 programmable keys (bi-color LEDs) and connects to IP Phones that support Expansion Stations via an type-C straight-through cable. The T780NK supports up to six expansion stations and provides 192 programmable keys. In conjunction with IP-PBX, each programmable key can be used for speed dialing, BLF, and call answering in collaboration with the server.

The Extension Desk is suitable for front desk switchboards, administrative assistants, call center agents, and users who need to monitor or manage a large number of calls.

Product Information

parameters	clarification
keystrokes	32 programmable function keys with red and
	yellow-green LED bi-color LEDs.



Panel jam	32 handwritten notes.
Key Function	Speed dialing, call forwarding, call waiting, Call pickup, BLF, DND.
connector	One type-C data interface (IN), one Type-C cascade interface (OUT), the maximum support for simultaneous cascade 6 expansion stations.
Maintentence	The main phone Web page maintains all data.
power supply	No external power supply, powered by the telephone TYPE-C cable.
operating temperature	0~60 °C.
relative humidity	10% to 90%.
sizes	174mm*100mm*35mm (L*W*H).
weights	0. 25KG.

Extension table packing list

Open the box of the Expansion Console and carefully check whether the relevant accessories are complete against the packing list, which is shown below:

- 1 x Expansion Desk
- 1 Type-C cable
- 1 metal mounting fastener (with 4 mounting screws)
- Extension table bracket

Connecting an Expansion Station

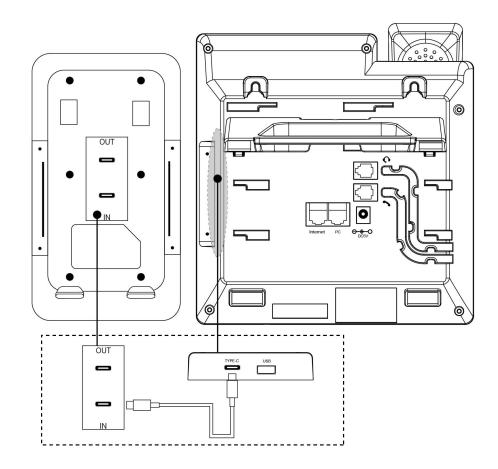
- Connects the phone to the extension station:

1. Connect the phone and the extension station through the metal mounting fasteners and secure them with the mounting screws.

2. Mounting bracket.



3. Use the type-C data cable (straight-through cable) to access the IN port of the expansion station at one end, and the other to access the OUT port of the phone, as shown in the following figure:



- Multiple expansion stations cascade:

1. Connect two or more expansion stations by metal mounting fasteners and install screws to fix them.

2. Mounting bracket.

3. Use a Type-C cable (straight-through cable) to connect one end to the **OUT** connector of Expansion Station A and the other end to the **IN** connector of Expansion Station B. As shown in the figure below:

3

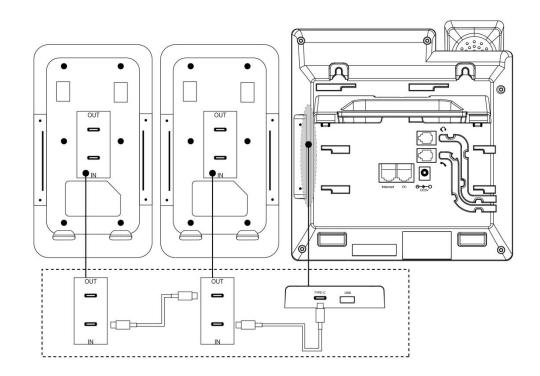
4

- (5)

6

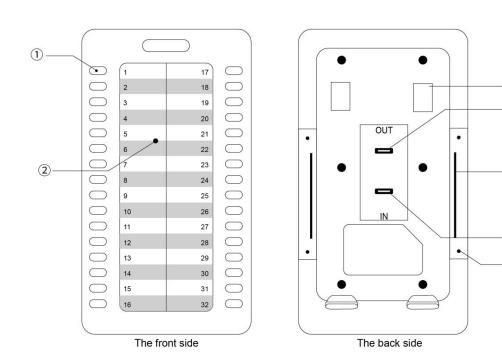
 $\overline{7}$





Description Up to 6 expansion stations can be connected. After connecting the extension station, you can set it up through the Web management interface of the phone.

Expansion Table Hardware Overview





serial number	name	clarification
1	programmable key	<pre>Can be used to bind a speed dial number for speed dialing. It can be used to set certain function codes to work with SIP Server to realize the function. When BLF* (Busy Line Detection) is turned on, you can check the busy and idle status of the corresponding number: 1) Red color is always on: the remote line is talking. 2) Flashing red: Incoming call on remote line. 3) Yellow-green color is always on: Remote line idle**. Sequential programming of programmable keys: Left side from top to bottom: 1 to 16. Right side from top to bottom: 17 to 32.</pre>
2	Extension table jam	Provides user identification definitions of the speed dial numbers and the function keys set up for easy access.
3	Bracket slot	Used to secure the extension table bracket.
4	OUT connector	Used for connecting to the IN port of the downlinked expansion unit.
5	Metal fastener slot	Metal fastener insertion position.
6	IN port	Used to connect to the OUT connector of a phone or to the OUT connector of an uplinked expansion station.
7	metal screw hole	Screw holes for mounting metal fasteners.

Test Expansion Station

<u>Connect the extension unit</u> After connecting the expansion unit, you can



use the phone diagnostic function to check whether the keys and LEDs of the expansion unit are normal or not. If you want to set the key functions of the expansion unit, please go to the Web interface to configure them, and check the function description of the expansion unit for details.

For each connected station, you need to select the serial number of the station to install, and through this process, the phone recognizes the serial number of the connected station. After successful installation, you can only check the status of the extension station in the Phone Status section of the web page.

- Installation of the expansion table

- Operate on the phone, click Menu->Functions->Expansion Disk Installation, the screen displays "Press 1-6 of the expansion station to select the serial number, OK button to finish".
- 2. At this time, all the keys on the expansion unit with selectable serial numbers will light up in yellowish-green (left to up to down 1°6 keys), and the key corresponding to the current serial number of the expansion unit will light up in red and blink, press the corresponding key, and the key will light up in red and blink to determine or modify the serial number of the expansion unit.
 3. Press the key or the **OK** soft key to submit the save.

- Key Diagnostics

- To operate on the phone, click Menu->Settings->Basic Settings >Diagnostics->Expansion Disk->Keypad.
- 2. The screen will display the two-line string shown below:



-Key-

abcdefghijklmnop qrstuvw×yz*#\$%@!

Back

abcdefghijklmnop -----> Indicates keys 1-16 on the expansion disk.

qrstuvwxyz*#\$%@! -----> Indicates expansion disk keys 17-32

Tap the 32 keys on the expansion disk in sequence and the characters on the screen will disappear accordingly. If the corresponding characters on

Instructions 1. If you detect that characters do not disappear when a button is pressed, please contact your network administrator or dealer for troubleshooting confirmation.
2. Repeat the above steps when multiple expansion stations are connected.

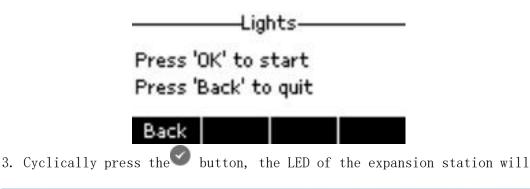
the screen do not disappear when a key is pressed, there is a problem with the key. If all the characters disappear, there is no problem with the 32 keys.

- Button LED Diagnostics

1. To operate on the phone, click Menu->Settings->Basic Settings-

>Diagnostics->Expansion Disk->Light.

2. The screen displays the following:



DESCRIPTION For previous irregularities, please contact your network administrator or reseller for problem troubleshooting.

light up (multiple expansion stations will light up at the same time when cascading), red, yellow, and green, and observe whether the key LED is off, dim, and blinking without operation.



Extension Desk Functional Description

After installing the extension station (i.e., after setting the serial number for the extension station), you can set up operations for the keys on the extension station. Here, you can bind the key to a remote extension number for speed dialing; or set it to some function code setting to realize some function with SIP Server. Of course, you may also need to apply the BLF* function of the keypad to view the call status of the corresponding remote extension.

- Web Setup Extension Desk

Configuration and status can be made easier and more convenient by setting up the Web page. When setting up the Web page, the following points must be sure:

1) Connect the computer and the IP phone with the extension desk to the same network. If there is no network interconnection device, you can connect the computer directly to the PC port of the IP phone through a straight-through cable;

2) Ensure that the phone has been operated properly and check the IP address of the phone;

3) Enter the phone IP address in the address bar of your browser;

4) Enter the administrator username and password to enter the webpage configuration page. The default administrator username is admin and the default password is admin;

5) Click "Programmable Keys" > "Extension Desk" in the left navigation bar to open the Extension Desk settings page.

As shown:

- Setting up the expansion table

1. Select the expansion station n you need to configure.



Select the keys you need to configure (refer to the Expansion Console
 Overview - Keys and Hardware section for the specific key sequence).

3. Select each parameter to set and modify:

* :: Type: Select the function of the account.

* Account: Select the SIP account associated with this key.

* Label: sets the name description of the key.

* Value field: sets the key to carry out dialing a number or a

feature code that realizes a function of a server.

* Extension number: Fill in the feature code supported by the server on demand, depending on the type.

Refer to the programmable keys for parameter settings of the function. 4. Tap the **Submit** button to save.

Menu	Dsskey - EX N	lodule			
- Status(S) →	Please Select EX M	odule: EX Module	· •		
Sccount(A) -	Key	Туре	Account	Label Value	Extension
Network(N) 🔹	Line Key1	BLF 🗸	Account1 🗸	1080	
لي DssKey(D)	Line Key2	BLF 🗸	Account2 🗸	1081	
Line Key(w)	Line Key3	BLF 🗸	Account2 🗸	1082	
EX Module(])	Line Key4	BLF 🗸	Account2 🗸	1083	
	Line Key5	BLF 🗸	Account2 🗸	1084	
Programmable Key(7)	Line Key6	BLF 🗸	Account2 🗸	1085	
E Features(U)	Line Key7	BLF 🗸	Account2 🗸	1086	
క్రో కి Settings(E) ▼	Line Key8	BLF 🗸	Account2 🗸	1087	
Directory(B)	Line Key9	BLF 🗸	Account2 🗸	1088	
🕀 Security(F) 🗸	Line Key10	BLF 🗸	Account2 🗸	1089	
	Line Key11	BLF 🗸	Account2 🗸	1090	
	Line Key12	BLF 🗸	Account2 🗸	1091	
	Line Key13	BLF 🗸	Account2 🗸	1092	
	Line Key14	BLF 🗸	Account2 🗸	1093	
	Line Key15	BLF 🗸	Account2 🗸	1094	·
			Cancel(c)	Confirm(s)	

System Customization

Account Management



The T780N can register SIP accounts, up to 2 accounts, and make calls through the registered SIP accounts. Dual accounts can be used to make multiple calls at the same time, by pressing the account key to switch the account used.

Account Registration

- Register for an account through the phone interface

1. Press Menu->Settings->Advanced Settings (Password:admin)->Account.

2. Press or to select the account to be configured and press the **Enter** soft key to enter the configuration screen.

3. Account status can be enabled or disabled by toggling the soft key.

4. Press or to select the label, display name, user name, registration name, password, server address, and

I.Active L	ine:
enable	4)

Registration server port.

- 5. Change the transmission mode by switching the softkey: UDP or TCP.
- 6. Press the Save soft key to save the account.

- Registering for an account through the web interface

1. Log in to the phone page by IP address.

2. Click Account (A) -> Register (r).

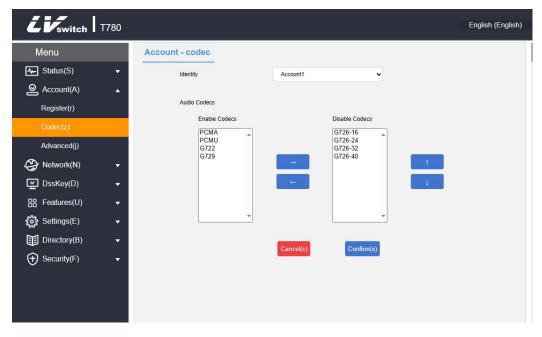
3. Fill out and **submit** (required fields: user name, registered account, password, server address, port).



Menu	Account - registration				Note
Status(S)	Account :	Account2	▼ ?		Display Name
Account(A)	 Register Status : 	Registered			SIP service subscriber's name which will b used for Caller ID display.
Register(r)	Line Active :	Enabled	▼ ⑦		 Register Name SIP service subscriber's ID used for
Codec(z)	Label	20801	(?)		 uthentication. User Name
Advanced(j)	Display Name :	20801	(?)		 User warne User account, provided by VoIP service provider.
	Username :	20801	0		NAT Traversal Defines the STUN server will be active or
<i>2</i>	Register Account :	20801	?		not.
ᇁ DssKey(D)	Password :		0		
B Features(U)	SIP Server 1				
Settings(E)	Server Host :	192.168.2.220	Port	50800	
Directory(B)	Transport :	UDP	v ?		
+ Security(F)	Server Retry Counts :	3	?		
~	SIP Server 2				
	Server Host :		Port	5060	
	Transport :	UDP	v ?		
	Server Retry Counts :	3	?		
	Server Expires :	3600	0		
	Auto Answer :	Disabled	v ?		
	Praxy Server :	Disabled	v ⑦		
	Server Host 1 :		Port	5060	
	Server Host 2 :		Port	5060	
	NAT	Disabled	~		

- Configuration of codecs through the web interface
 - 1. Log in to the phone page by IP address.
 - 2. Click Account (A) \rightarrow Codec (z).

3. Select the codec you want to enable and then **submit it** (support type: PCMA/PCMU/G722/G729/G726, etc.).



- Configuration of codecs through the phone interface



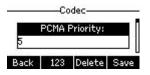
1. Press Menu->Settings->Advanced Settings (password:admin)->Account

Advanced->Codec.

2. Press or to select the codec input value to be configured,

the higher the value the higher the codec priority.

3. Press the **Save** soft key to save.



Explanation If there is a problem that the phone can not be registered, please check whether the registered information is filled in correctly, check whether the network of the phone is normal, if you need help, please contact your network administrator.

Programmable keys

Divided into account keys, <u>Expansion Station keys</u>, and programmable function keys.

Account key

The T780N phone has 2 account keys located on the right side of the LCD, you can set different functions for each of these two keys and set the label of the account key, the label will be displayed on the LCD corresponding to the account key when the phone is in standby.

- Setting the account key function through the phone interface
 - 1. Press Menu->Features->Programmable Keys.
 - 2. Press or to select the account key to be changed.
 - 3. Press the Toggle key to change the type selection.
 - 4. Press or to select a label/username to fill in.
 - 5. Press the Save soft key to save.



Acc	count key 1-	5
1.Type:		
Account:	s	•
Back	Switch	Save

- Setting up account key functions through the web interface

1. Log in to the phone page by IP address.

2. Click the programmable key (D) \rightarrow account key (w).

3. Select different functions in the type selection.

4. Number field Fill in the called number, the filled in label will be

shown on the right side of the LCD in standby.

5. Press **Submit to** save when you have finished selecting.

IP Phone						English (English)	🕶 🛛 😥 admin 🗸
Menu	Dsskey line l	ey					Note
Status(S)	Key	Туре	Value	Label	Account	Extension	
Account(A)	Line Key1	Account V	value	Laber	Account1 V	Extension	
	Line Key2	N/A	<u></u>		Account1 V		
ے۔ ای DssKey(D)	Line Key3	Account Speed Dial BLF			Account3 V		
Line Key(w)	Line Key4	Voice Mail Pickup			Account4 🗸		
Programmable Key(7)	Line Keyő	Group Pickup Call Park			~		
B Features(U)	Line Key6	Intercom DND			~		
ද්ි Settings(E)	Line Key7	DTMF Directory			~		
Directory(B)	Line Key8	Prefix SMS			~		
Gecurity(F)	Line Key9	XML Browser Transfer			~		
	Line Key10	Hold Local Group			~		
	Line Key11	XML Group Dial Recall	•		~		
	Line Key12	N/A 🗸			~		
			Cancel(c)	Confirm(s)			

Account Key Function Type Description

	typology	Instructions and use
account number key	username	<pre>The system defaults to the account key Usage: 1. Set the account type to "Account". 2. The number does not need to be filled in. 3. Set up labels on demand. 4. Click on the account number key, the key's green light is always on and a dial tone is emitted, prompting the user to dial the number.</pre>



		After setting up the intercom, pressing the account
		button will automatically dial the set number to
		realize intercom.
		- Usage:
		1. Set the account type to "Walkie Talkie".
		2. Number Fill in the number of the intercom to be
		carried out.
	walkie-	3. Set up labels on demand.
	talkies	4. The other party's phone needs to be set to
		answer automatically.
		5. Click the Account button to automatically dial
		to the set number.
		6. The handset of the called number automatically
		answers the intercom call.
		For details, please refer to Features <u>Walkie</u>
		<u>Talkie</u> for a detailed description.
		-Кеу Туре
		1. Call Parking: Park the call at the PBX designated
		parking space by feature code.
		-value fills in the call park feature code.
		2. Callback: Quickly dial the number of the last
		incoming call.
		3. DND: Same as the initial interface .
	key event	4.DTMF: Quickly enter pre-configured DTMF content
		during a call.
		-value Fill in the DTMF content you want to
		configure.
		5. Address Book: Same function as the initial
		interface of Address Book.
		6. Group listening: handle and hands-free



	simultaneous radio, handle can speak, hands-free can
	not speak.
	7. Group pickup: Intercepting (answering on behalf of)
	calls within the same group by means of a feature code.
	-Account ID selects the intercept account
	-Value Fill in Group pickup Code
	8. Hold: Same as hold in a call.
	9. Local Groups: Quickly jump to the specified groups.
	-Local Groups Specify Groups to Jump to
	10. Multicast: Quickly initiate a multicast.
	-value Fill in the multicast address IP + port number.
	-Channel selects one from 0-30
	11. Multicast List: Quickly jump to Menu→Function→
	Multicast List interface.
	12. Specify Intercept: Specify intercept the call by
	<pre>designated pickup feature codeWhen the specified intercept is not enabled on the web side, fill in the intercept code + extension number; otherwise, fill in the extension number only.</pre>
	13. Prefix: Quickly enter a pre-configured prefix for
	easy dialing.
	-value Fill in the prefix to be configured
	14.Text Message: Quickly jump to Menu→Messages→Text
	Message interface.
	15. Call Forwarding: Quickly forward calls to a
	specified number.
	-value for the forwarding number
	16. Voicemail : the same as SMS key, set the voice
	feature code or speed dial the voice feature code to listen to the voice message.
	-Account ID selects the specified account



	17. XML Browsing: Browse XML in accordance with the
	specified format, support for browsing text, images,
	address book and so on.
	-value fill in XML browser address
	18.XML Groups: Quickly jump to a specified remote
	address book.
	-XML group fill in the remote address book name,
	you need to open the remote address book before use
	19. Keypad Lock: When the keypad lock is activated,
	press to quickly lock.
	20. Hot desking: Clear the current account
	configuration and enter a new account password to
	quickly configure the phone.
	Retrieve calls parked at the PBX's designated moorings by feature code.
	- Usage:
	1. The account type is set to "Retrieve park".
retrieve a call	2. Account ID sets the call account.
parked	3. Set up labels on demand.
call	4. The value is filled with the corresponding
	feature code of the server.
	5. Click on the account button to get the call back
	via the feature code.
	Quickly dial the designated account number.
	- Usage:
	1. The account type is set to "Speed Dial".
speed	2. Account ID sets the account number for dialing
dial	out.
	3. Set up labels on demand.
	4. The value is filled in with the other party's
	number.



	5. Click the account number key, the green light
	corresponding to the dialed out account always light
	up and emit a dial tone.
	Used to monitor the working status of other phone
	numbers and call pickup .
	- Usage:
	1. Set the account type to "BLF".
	2. Account ID Select the number you want to call.
	3. Set up labels on demand.
	4. The value is the number to monitor or
	intercept.
	5. Extension number can be optional, when you need
BLF	to intercept the answer, fill in the server
	specified intercept code.
	When the green light is always on, clicking the
	account number key is equivalent to speed dialing;
	When the red light is blinking, if you set the
	intercept code, you can make a call on behalf of the
	call by clicking the account button at this time.
	A red light is always on to indicate that the
	listening number is in a call.

Programmable Function Keys

You can customize the functions of the soft keys, arrow keys, and functional buttons below the screen for T780N according to your personal habits.

- Programmable function keys via web interface

- 1. Log in to the Web interface.
- 2. Click Programmable Key (D) \rightarrow Programmable Function Key (7).
- 3. Softkey 1 $^{\sim}$ Softkey 4 set the label content, which can be displayed on



the LCD screen.

4. Click the Submit button to save.

▶ Status(S) • ▶ Status(S) • ▶ Account(A) • > Softkey1 History > Softkey2 Directory Network(N) • > Softkey3 DND NA • Softkey4 Meru NA • Softkey1 History Up History NA • Oracle NA NA • Oracle NA NA • Oracle NA NA •	Menu	DssKey-Prog	ammable Key					Note
	⊶ Status(S) -	Key	Туре	Account	Value	Label	Extension	Key Type
Network(N) Softkey2 Directory NA DssKey(D) Softkey3 DND NA Line Key(W) Softkey4 Menu NA Piogrammable Key(7) Up History Local Histor Down Directory NA Other Corport NA NA Settings(E) Right Sweh Acce NA OK Status NA NA NA Cancel NA NA NA NA NA	🖳 Account(A) 🛛 🚽	SoftKey 1	History 🗸	Local Histor 🗸				Key Event, Intercom.
✓ DssKey(D) Image: SoftKey 3 DND N/A Image: SoftKey 4 Menu N/A	🚱 Network(N) 🗸 🗸	SoftKey 2	Directory 🗸	N/A 🗸				Key events are predefined shortcuts to
Line Kcy(w) Softkey 4 Menu v N/A v an office environment as a quick access connect to the operator or the service of the operator of the service of the operator or the service of the operator or the service of the operator or the service of the operator of the service of the service of the operator of the service of the operator of	숲 DssKey(D) 🔺	SoftKey 3	DND 🗸	N/A 🗸				Intercom
Piogrammable Key(7) Up History ↓ Local Histor ↓ BB Features(U) ↓ Down Directory ↓ N/A ↓ Image: Comparison of the team of te	Line Key(w)	SoftKey 4	Menu 🗸	N/A 🗸				an office environment as a quick acces
BF Features(U) ▼ Settings(E) ■ Directory(B) ▼ B Security(F) ■ Cancel N/A TRAN Forward N/A ■ N/A ■ N/A ■ Becurity(F) ■ Redial N/A N/A ■	Programmable Key(7)	Up	History 🗸	Local Histor 🗸				
Settings(E) IDirectory(B) Security(F) Cancel N/A Cancel N/A TRAN Forward N/A	88 Features(U) →	Down	Directory 🗸	N/A 🗸				
Pirectory(B) Right Switch Acccv N/A Image: Constraint of the constrai	Settings(E)	Left	Switch Accc 🗸	N/A 🗸				
OK Status N/A Image: Carcel in the im		Right	Switch Acco 🗸	N/A 🗸				
Cancel N/A V N/A TRAN Forward N/A V Redial N/A V V		OK	Status 🗸	N/A 🗸				
Rediał N/A V N/A V		Cancel	N/A 🗸	N/A 🗸				
		TRAN	Forward 🗸	N/A 🗸				
Message NA V NA V		Redial	N/A 🗸	N/A 🗸				
		Message	N/A 🗸	N/A 🗸				
			Confirm	(s) Can	cel(c)	Reset to default		

Description Programmable function keys are set in the web interface. If there is a problem with the settings, you can click Restore Defaults to restore all keys to their factory state.

Programmable Function Key Type Description

	typology	Instructions and use
	unoccupied	/
Programmable Function Keys	speed dial	 Quickly dial the designated account number. Usage: Set the type to "Speed Dial". The account is set to the corresponding account that needs to realize speed dialing. The value field is set to the number of the other party. Set up labels on demand. Pressing after setting will speed dial the set number.
	group pickup	Setting up group interception allows you to intercept accounts in the same interception group. - Usage:



	1. Set the type to "Group Intercept".
	2. The account is set to the
	corresponding account that needs to
	realize the group interception.
	3. The value field is set to the group
	pickup feature code.
	4. Set up labels on demand.
	5. When there are accounts in the
	Intercept Group in the incoming call
	status, press the Group Intercept key to
	realize group interception.
walkie-talkies	After setting up the intercom, pressing the account button will automatically dial the set number to realize intercom. - Usage: 1. Set the type to "Walkie Talkie". 2. Account Fill in the account to be intercom. 3. The value field is set to Intercom Prefix + the number of the other party to be intercomed. 4. Set up labels on demand. 5. Click the Account button to automatically dial to the set number. 6. The phone of the called number automatically answers the intercom call. For details, refer to the detailed description of the function intercom.
prefix	<pre>Quickly enter pre-configured prefixes for easy dialing. - Usage: 1. Set the type to "Prefix". 2. The value field is set to the value you want to configure. 3. Set up labels on demand. 4. Pressing after setting will bring up the dialing screen with the prefix value.</pre>
local group	<pre>Quickly jump to a specific group. - Usage: 1. Set the type to "Local Group". 2. The account selects the group you need to jump to. 3. Set up labels on demand. 4. Pressing after setting will quickly jump to the designated group.</pre>
XML Browsing	Browsing XML that conforms to a defined
	105



		format, with support for browsing text, images, address books, etc. - Usage:
		1. Type is set to "XML Browser".
		2. The value field is filled with the
		XML browser address.
		3. Set up labels on demand.
		4. After setting up press will browse
		the related XML. You can go directly to the call log page
		after setting up call log.
		- Usage: 1. Set the type to "History".
	History	2. The account defaults to the local
		call record.
		3. Set up labels on demand.
		4. Pressing this key takes you directly
		to the call log.
		- Usage: 1. Set the type to "Menu".
	menu	2. Set up labels on demand.
	morra	3. Pressing the key takes you directly
		to the menu.
		- Usage:
		1. Set the type to "Forward".
	Formored	 Set up labels on demand. Press the key for the first time to
	Forward	enter the page of setting the
		unconditional transfer number, and set it
		as the unconditional transfer switch.
		- Usage:
	DND	1. Set the type to "Do not disturb".
		2. Set up labels on demand.
		3. Set it up as a do-not-disturb switch.Usage:
		1. Set the type to "Callback".
	Call back	2. Set up labels on demand.
		3. Set up for the callback button.
		Quickly jump to the Menu \rightarrow Message \rightarrow Text
		Message screen.
	0140	- Usage:
	SMS	1. Set the type to "SMS".
		2. Set up labels on demand.
		3. After setting, press will jump to the text message interface.
		Quickly jump to Menu \rightarrow Messages \rightarrow Text
		Messages screen → New Message.
	new SMS	- Usage:
		1. Type is set to "New SMS".
		2. On-demand labeling



	3. After setting, press will jump to th new message editing interface.
Status	 Usage: 1. Set the type to "Status". 2. Set up labels on demand. 3. After setting up, press to check the status of the phone.
multicast	<pre>Quickly initiate a multicast. - Usage: 1. Set the type to "Multicast". 2. The value field is filled with the multicast address IP + port number. 3. Set up labels on demand. 4. Extension number fill in the channel number. Please refer to the detailed description of the function multicast configuration for more information.</pre>
local contact	 Usage: 1. Set the type to "Local Contact". 2. Set up labels on demand. 3. Press to enter local contacts after setting.
Hot desking	Clear the current account configuration Enter a new account password to quickly configure the phone. - Usage: 1. Type set to "hot desking" 2. Set up labels on demand. 3. After setting up and pressing will prompt whether to clear all account configurations.
Switching Accounts Upwards	 Usage: 1. Set the type to "Upward account switching". 2. Set up labels on demand. 3. After setting up, press the key to switch the default account upwards.
Switching Accounts Down	 Usage: 1. Set the type to "Downward account switching". 2. Set up labels on demand. 3. Press the key to switch the default account down after setting.
directory	 Usage: 1. Set the type to "Directory". 2. Set up labels on demand. 3. Press the key to enter the address book after setting.
	Quickly jump to the Menu→Functions→



- Usage:
1. Type is set to "Multicast List".
2. Set up labels on demand.
3. Press after setting will enter the
multicast list interface.

Dialing Rules

Setting up dialing rules allows the phone to dial conveniently according to the syntax set up by the dialing rules.

Description This function can only be set in the web interface.

Dialing Rule Syntax

Before using dialing rules, you need to understand the dialing syntax; if you are already familiar with that syntax, you can skip this step and check the

<u>Dialing Rules Feature</u> Content.

Dialing Rule Symbol Description:

character	clarification	(for) instance
	Indicates any number of placeholders	Enter "78." Match "786", "7856", "78911", "7857713", etc.
x	Indicates a placeholder	Enter "78x" Match "781," "782," "783," "784." "789", etc.
-	Indicates an interval range	Enter "[7-9]". Match "7" or "8" or "9".
[]	Indicates an interval range, there is only one [] in the string, use it with the - symbol.	Enter "12[7-9]45". Match "12745," "12845," "12945."
()	Indicates multiple interval range	Enter "([1-2][7-8])". Match "17," "27," "18," "28."



combinations with	
multiple [] in the	
string	

DESCRIPTION For questions about the syntax and use of dialing rules, contact your network administrator.

Dialing Rules Feature

Dialing rules include the following:

- Replacement rules
- Call out immediately
- Area code
- Restriction of outgoing calls

1) Replacement rules

You can customize the replacement rules up to 100. Replacement rules mean that you can enter a string of characters and the phone will automatically replace it with your customized string. In practice, for example, if you set a substitution rule to input "1" and replace it with "10086", when you dial 1 on the phone and press the Send softkey or #, the phone will automatically replace it with 10086 for dialing. Using substitution rules, you can also make quick IP point-to-point calls.

- Adding replacement rules through the web interface

- 1. Log in to the phone page by IP address.
- 2. Click Settings (E) -> Dialing Plan (k) -> Replace Rules.
- 3. Enter a string in the **Prefix** field (e.g., 1).
- 4. Enter the replacement string (e.g., 10086) in the Replacement area.

5. Select the lines to which the rule applies at the **account number**. (where all indicates all accounts).

6. Click the Add button to save the rule.



After adding the above rules, when you dial the number "1", press the Send soft key or # to call, the phone will automatically replace the number with "10086" for dialing.

- Modification of replacement rules through the web interface

- 1. Log in to the phone page by IP address.
- 2. Click Settings (E) -> Dialing Rules (k) -> Replace Rules.

3. Check the checkbox to the right of the rule you want to modify in the rule list.

- 4. Modify prefixes/replacements/accounts as needed.
- 5. Click the Edit button to save the changes.

IP Phone					English (English)	• 😧 admin •
Menu	Dial Plan					Note
♣ Status(S) +	Replace Rule	Dial-now Area Code	Block Out			Account
😂 Account(A) 🗸 🗸						Users can customize the account. Any dialing rules added to the account will tak effect if you use the account, but not for
 → Network(N) →	Index	Prefix	Replace	Account		other accounts. For example, if you fill in only account 1 will take effect
	1	1	12345	1		Dial the rules immediately
ng DssKey(D) 🚽	2					Users can custom rules, all press hands- free, account number or file handle input
Reatures(U) -	3					meet rules will be in the set of instant exhaled delay time set aside, without the
Settings(E)	4					need for achievement. Set to XXX, for example, after the press hands-free, acc number or file handle arbitrary input
Preference(i)	5					according to the three Numbers will be deemed to be the telephone number is s
Time & Date(t)	7					out.
	8					
Upgrade(u)	9				0	
Configuration([)	10					
Tones(q)		Skip to	1 y < >			
Voice(;)	2					
Dial Plan(k)	Prefix: 23	Repla	ace: 12345 Acco	ount: 1	~	
	26	Delete	3 Edit Ad	dd		
TR069(\)						
Call Display(^)						
Call Display(")						

- Deletion of replacement rules through the web interface

- 1. Log in to the phone page by IP address.
- 2. Click Settings (E) \rightarrow Dialing Rules (k) \rightarrow Replace Rules.
- 3. Check the checkbox to the right of the rule you want to modify in

the rule list.

4. Click the **Delete** button to delete the rule.

IP Phone						English (English)	• 😧 😧 admin •
Menu		Dial Plan					Note
Status(S)	-	Replace Rule	Dial-now Area Code	Block Out			Account
Account(A)	- -						Users can customize the account. Any dialing rules added to the account will take effect if you use the account, but not for
Network(N)	•	Index	Prefix	Replace	Account		other accounts. For example, if you fill in 1, only account 1 will take effect
DssKey(D)		1	23	12345	1	•	Dial the rules immediately Users can custom rules, all press hands-
E Features(U)		3					free, account number or file handle input meet rules will be in the set of instant
දියි Settings(E)		4				0	exhaled delay time set aside, without the need for achievement. Set to XXX, for example, after the press hands-free, account
Preference(i)	Î	5					number or file handle arbitrary input according to the three Numbers will be
Preletence(I)		6					deemed to be the telephone number is sent out.
Time & Date(t)		7					
Upgrade(u)		8					
Configuration([)		9					
		10					
Tones(q)			Ski	o to 1 👻 <			
Voice(;)							
Dial Plan(k)		Prefix: 23	R	aplace: 12345	Account: 1	~	
TR069(\)			Delete	Edit	Add		
Call Display(^)			100 C				
Auto Provision(3)							
Ring(.)							
Softkey Layout(,)							

2) Exhale immediately

You can customize the immediate outgoing rules, up to 100 rules, all the numbers that meet the rules by pressing the speakerphone, account number



key or lifting the handle will be dialed in the set immediate outgoing delay time, without pressing the send key. For example, when you set the call out rule as xxxxx, the caller account number is all (any account), when you dial any five-digit number of 10086, the phone will call 10086 immediately when you meet the call out rule.

- Adding immediate callout rules through the web interface

1. Log in to the phone page by IP address.

2. Click Settings (E) -> Dialing Rules (k) -> Call Out Now.

3. Enter the rule characters to be set in the rule input area (e.g.: xxxxxx).

4. Select the account to which the matching rules apply (eg: the current registered account 80011), the default value is all (indicating all accounts).



5. Click the Add button to save the rule.

When any five-digit number such as 10086 is entered, it will be called out immediately after waiting for the delay time.

- Modify the immediate call out rules through the web interface

1. Log in to the phone page by IP address.

2. Click Settings (E) \rightarrow Dialing Rules (k) \rightarrow Call Out Now.



3. Tap the rule you want to modify in the rule list.

4. Modify the rule in the rule input area, e.g.: (original: xxxxx ---> change: 1xxxx).

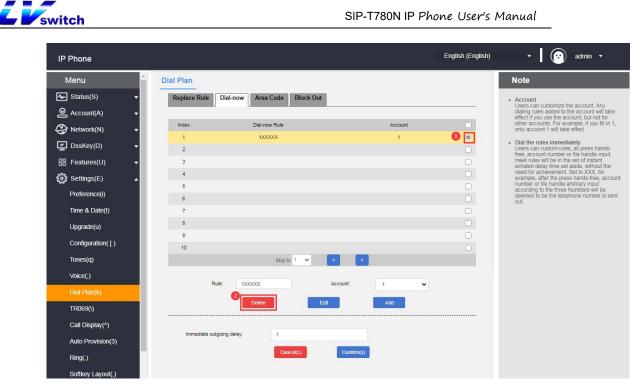
5. Account area to select the account to which the matching rule applies (e.g., the current registered account 8001), the default value is all (indicating all accounts).

IP Phone					English (English)	• 😧 admin •
Menu	^	Dial Plan				Note
Status(S)	•	Replace Rule	Dial-now Area Code Block Out			Account
Account(A)	•		0			Users can customize the account. Any dialing rules added to the account will take effect if you use the account, but not for
Network(N)	•	Index	Dial-now Rule	Account		other accounts. For example, if you fill in 1, only account 1 will take effect
DssKey(D)	•	1	XXXXXX	1		Dial the rules immediately Users can custom rules, all press hands-
- Reatures(U)	.	3				free, account number or file handle input meet rules will be in the set of instant
ຊົ່ວະ Settings(E)		4				exhaled delay time set aside, without the need for achievement. Set to XXX, for example, after the press hands-free, account
Preference(i)		5				number or file handle arbitrary input according to the three Numbers will be
		6				deemed to be the telephone number is sent out.
Time & Date(t)		7				
Upgrade(u)		8				
Configuration([)		10				
Tones(q)			Skip to 1 🗸	< >		
Voice(;)			2			
Dial Plan(k)		Rui	e: 10000X	Account: 1	~	
TR069(\)			Delete Ed	t Add		
Call Display(^)						
Auto Provision(3)		Immediate outg	oing delay: 1			
	-		Cancel(c)	Confirm(s)		
Ring(.)						
Softkey Layout(,)						

6. Click the Edit button to save the modified rule.

- Remove immediate call out rules through the web interface

- 1. Log in to the phone page by IP address.
- 2. Click Settings (E) \rightarrow Dialing Rules (k) \rightarrow Call Out Now.
- 3. Tap the rule you want to delete in the Rule List.



4. Click the Delete button to delete the rule.

Immediate outbound delay time

Immediate call out needs to set the delay time, the default time is 2 seconds, the setting range is $0^{\sim}14$ (unit: second), when the number entered when dialing meets one of the immediate call out rules, the phone will automatically call out the number after the delay time, without pressing the send key.

- Setting the delay time for immediate outgoing calls through the web interface

- 1. Log in to the phone page by IP address.
- 2. Click Settings (E) \rightarrow Dialing Rules (k) \rightarrow Call Out Now.
- 3. In the Instant Call out Delay entry field, fill in the time.
- 4. Click the Submit button to save.



Phu Hatus(S) ktatus(S) ccount(A) index Disknow Rule Account 1 2 3 1 </th <th></th> <th></th> <th></th> <th></th> <th></th>					
klatus(S) kccount(A) ketwork(N) vskev(D)	IP Phone				English (English)
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uto Provision(3) ing(.) Immediate outgoing delay: 5 Concet(c) Confirm(s)					
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offkey Lavour()	Ring(.)		Cancel(c)	Confirm(s)	
	Softkey Layout(,)				

3) Area code

You need to add the area code to make calls between different regions, which are different from one region to another. If you need to call a phone number in a certain area frequently, you need to manually dial the area code prefix of that area. By using this feature it will automatically add the area code/prefix in front of your outgoing number.

Description Only one area code can be set for the T780N.

Example:

Setting the area code (length range: 1~15 digits)	0757
When you dial the number (length range: 1~15 digits))	12345
The actual outgoing number is changed to	075712345

- Setting up area codes through the web interface

- 1. Log in to the phone page by IP address.
- 2. Click Settings (E) \rightarrow Dialing Rules (k) \rightarrow Area Code.



- 3. Fill in the area code (length range: $1^{\sim}15$ digits).
- 4. The account number can be filled in with the registered account of

the matching area code or the default value is all (all accounts).

IP Phone		English (English) 🔹 🛛 😨 admin 🔹
Menu Status(S) Account(A) Network(N)	Code: 0757	Note - Account Users can customize the account. Any dialing rules added to the account, will take effect If you use the account, but not for other accounts. For example, if you fill in 1, only account 1 will take effect
DssKey(D) Features(U) Settings(E) Preference(i) Time & Date(t) Upgrade(u) Configuration([) Tones(q) Voice(.)	Account: 1 Cancel Confirm	 Dial the rules immediately Users can custom rules, all prantie impor- ment custom rules, all prantie impor- ment sources will be in the set of instant exhalted delay time set aside, without the need for achievement. Set to XXX, for example, after the press hands-free, account number of the handle arbitrary input according to the three Numbers will be deemed to be the telephone number is sent out.
Dial Plan(k) TR069() Call Display(^) Auto Provision(3) Ring(.)		

4) Restriction of outgoing calls

You can restrict the phone to call certain numbers by setting the restricted outgoing numbers, T780N supports up to 10 restricted outgoing numbers, when the number you call matches with the rule, the phone will show "prohibited number" on the LCD display.



- Adding outbound restriction rules through the web interface

1. Log in to the phone page by IP address.

2. Click Settings (E) -> Dialing Rules (k) -> Restrict Outgoing Calls.

3. Fill in the Blocked Numbers field with the number you want to restrict calls to.

4. Account fill in the registered account of the restricted call.

5. Click the Add button to save the rule.

IP Phone				English (English)	▼ 😧 admin ▼
Menu	Dial Plan				Note
Status(S) Image: Account(A)	Replace Rule	Dial-now Area Code Block Out	2		Account Users can customize the account. Any dialing rules added to the account will take effect if you use the account, but not for
Network(N) 🗸	Index	BlockOut Number	Account		other accounts. For example, if you fill in 1 only account 1 will take effect
숲 DssKey(D) 🚽	2				 Dial the rules immediately Users can custom rules, all press hands-
器 Features(U) 🗸	3				free, account number or file handle input meet rules will be in the set of instant exhaled delay time set aside, without the
کې Settings(E)	4				need for achievement. Set to XXX, for example, after the press hands-free, account
Preference(i)	5				number or file handle arbitrary input according to the three Numbers will be deemed to be the telephone number is s
Time & Date(t)	6				out.
	8				
Upgrade(u)	9				
Configuration([)	10				
Tones(q)		Skip to 1 👻			
Voice(,)		ockOut 800	Account: all		
Dial Plan(k)		umber:	Account: all		
TR069(\)		Delete	Edit Add		
Call Display(^)					
Auto Provision(3)					
Ring(.)					
Softkey Layout(,)					

- Modify outbound restriction rules through the web interface

- 1. Log in to the phone page by IP address.
- 2. Click Settings (E) \rightarrow Dialing Rules (k) \rightarrow Restrict Outgoing Calls.
- 3. Restrictions on Outgoing Rules List Tap the rule you want to modify.

4. Modify the rule in the rule input area, e.g.: (original: xxxxx --> change: 1xxxx).

5. Account area fill in the matching account (eg: the current registration account 8001), the default value is all (that all accounts).

6. Click the Edit button to save the modified rule.

IP Phone	Eng	lish (English) 🔹 😧 admin 🔹
Menu	Dial Plan	Note
- Status(S) -	Replace Rule Dial-now Area Code Block Out	Account
🙆 Account(A) 🗸 🗸		Users can customize the account. Any dialing rules added to the account will take effect if you use the account, but not for
🚱 Network(N) 🗸	Index BlockOut Number Account	other accounts. For example, if you fill in 1, only account 1 will take effect
・	1 800 all	Dial the rules immediately Users can custom rules, all press hands-
- Reatures(U) -	3	free, account number or file handle input meet rules will be in the set of instant
د Settings(E)	4	exhaled delay time set aside, without the need for achievement. Set to XXX, for example, after the press hands-free, account
Preference(i)	5	number or file handle arbitrary input according to the three Numbers will be deemed to be the telephone number is sent out
Time & Date(t)	6 7	out.
Upgrade(u)	8	
	9	
Configuration([)	10	
Tones(q)	Skip to 1 🗸 🔸	
Voice(;)	BlockCut 800 Account: all	
	Number:	
TR069(\)	Delete Edit Add	
Call Display(^)		
Auto Provision(3)		
Ring(.)		
Softkey Layout(,)		

- Remove outbound restriction rules through the web interface



- 1. Log in to the phone page by IP address.
- 2. Click Settings (E) \rightarrow Dialing Rules (k) \rightarrow Restrict Outgoing Calls.
- 3. Tap the rule you want to delete in the restricted outgoing rule list.
- 4. Click the **Delete** button to delete the rule.

IP Phone				English (English)	• 😧 admin •
Menu	Dial Plan				Note
🖅 Status(S) 🚽	Replace Rule	Dial-now Area Code Block Out			Account
🖉 Account(A) 🗸 🗸			L		Users can customize the account. Any dialing rules added to the account will take effect if you use the account, but not for
Network(N)	Index	BlockOut Number	Account		other accounts. For example, if you fill in 1, only account 1 will take effect
لي DssKey(D) ب	1	800	ell	0	Dial the rules immediately
1000	2				Users can custom rules, all press hands- free, account number or file handle input meet rules will be in the set of instant
Be Features(U)	3				exhaled delay time set aside, without the need for achievement. Set to XXX, for
ද්දා Settings(E)	5			0	example, after the press hands-free, account number or file handle arbitrary input
Preference(i)	6				according to the three Numbers will be deemed to be the telephone number is sent out.
Time & Date(t)	7				
Upgrade(u)	8				
Configuration([)	9				
	10				
Tones(q)		Skip to 1 👻	< >		
Voice(;)	Block	Out 800	Account: all 🗸		
Dial Plan(k)		per: (2)	all ¥		
TR069(\)		Delete	it Add		
Call Display(^)					
Auto Provision(3)					
Ring(.)					
Softkey Layout(,)					



Basic Functions

This chapter introduces the basic functions of the T780N telephone as follows:

- ▶ <u>make a call</u>
- ➢ answer the phone
- ➢ end a call
- ➤ <u>redial</u>
- ► <u>DND</u>
- ➢ <u>Call transfer</u>
- Call forwarding
- ➢ <u>Call Waiting</u>
- ➢ <u>PIN call</u>
- ➤ <u>call hold</u>
- Auto redial
- Call completion.
- ➢ <u>Auto Answer</u>
- ▶ anonymous call
- <u>hotline (communications link)</u>
- <u>two-dimensional barcode</u>
- ➢ sessions
- <u>Update</u>
- Upload ringtones
- Capture & Diagnose
- Timing reset
- configuration management

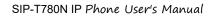
make a telephone call

You can choose the way to make a call 1 manual dialing, 2 call list,

local contact selection number dialing.

For the way to dial a phone Record and local contacts, please see <u>Contact</u>

<u>Management</u> and <u>CDR Management</u> for more information.





The T780N can be called using three tools:

- Handset
- headset
- hands-free (of telephone etc)

- Using the handset to make calls

Any of the following may be used:

Mode 1	Mode 2
1. Pick up the handle when the	1. Enter the number in the idle
phone is idle	state of the phone.
2. Enter the number	2. Pick up the handle
3. Press 💽 , # sso or the Dial soft key to call out the number.	3. Press (, for the Dial soft key to call out the number.

Description The default call out key of the phone is #, you can also set it to * or not set this key as call out key, please check the detailed setting method. <u>Outgoing Keys</u> section.

- Talking with a headset

Any of the following may be used:

Mode 1	Mode 2
1. After connecting the headset,	1. After connecting the headset,
press to enter headset mode	press 💽 to enter headset mode
	2. Press the account number button
2. Enter the number	to enter the dialing interface,
	enter the number
3. Press , #sond or the Dial	3. Press 🗭 , # sond or the Dial
soft key to call out the number.	soft key to call out the number.

- Talking on the speakerphone

Any of the following may be used:



Mode 1	Mode 2
 Press the hands-free key to enter the dialing interface 	1. Enter the number in the idle state of the phone.
2. Enter the number	2. Press , # ,
3. Press , #so or the Dial	
soft key to call out the number.	
Description The three call tool number first. You can dial the number by	s can be selected by dialing the calling the IP address on the

You can dial the number by calling the IP address on the phone, view the IP address in the other phone state, and then make a call by dialing the IP address, such as dialing: 192.168.0.123.

- multi-way calling

The T780N supports multiple calls, each account supports up to 2 calls, while one call is in progress, other way of call is on hold.

A new call can be initiated using any of the following methods:

Mode 1	Mode 2
1. During a call, press the account number key, the current call will be put on hold and enter the dialing interface	 During a call, press the Hold soft key to put the current call on hold.
2. Enter the number	2. Press the New Call soft key to enter the dialing interface, enter the number
3. Press , <i>#sob</i> or the Dial soft key to call out the number.	3. Press, for the Dial soft key to call out the number.
4. Press or to toggle the number and press the Resume soft key to resume the call.	4. Press or to toggle the number and press the Resume soft key to resume the call.



- Number Filtering

The T780N supports number filtering, which is used to filter out

invalid inputs when dialing.

- 1. Log in to the web interface.
- 2. Click Functions (U) \rightarrow Basic Information (5).
- 3. Calling number filtering: *#.
- 4. Click Submit to save.

- Allow IP calls

The T780N supports configuration of whether to allow IP calls.

Click Functions (U) → Basic Information (5) from the homepage.
 Enable: the phone allows direct IP dialing;

Disable: when calling IP, it prompts: account is unavailable; when called, you cannot receive direct dialing from IP, and you will receive missed calls from IP after restoration.

2. Click Submit to save the configuration.

- IP Direct Dial Auto Attendant

The T780N supports the configuration of whether or not to activate IP direct dialing auto-answer.

1. Click Functions (U) \rightarrow Basic Information (5) from the homepage.

Enable: Automatically answer the incoming IP calls;

Disable: need to manually answer an incoming IP call.

2. Click Submit to save the configuration.

Answer the phone

The T780N can answer calls using three tools:

- Handle
- headset
- hands-free (of telephone etc)



- Answering an incoming call using the handle

When phone's ringing pick up the handle.

- Answer a call using the speakerphone

When the phone is calling, press the Answer soft key or the

speakerphone key

•))

- Answering an incoming call using a headset

When the phone calls

- 1. Headset mode is activated, press the **Answer** soft key or press the account key that is blinking to answer.
- 2. Headset mode is not activated or is activated already, press
- Reject the call.

Press the **Reject** soft key for incoming call rejection.

If you set up Do Not Disturb, you can automatically reject calls, for details see <u>Do Not Disturb</u> section.

End a call

- If you want to hang up during a call, you can use the following methods:
- 1. To talk using the joystick: press the **Hang Up** soft key or return the handle to the phone.
- 2. To use a hands-free call: press the **Hang Up** soft key or the hands-free key .
- 3. To talk using the headset: press the Hang Up soft key.

Redial

The phone can quickly redial the last call or any call by using the RD button on the phone. You can use different ways to redial as follows:

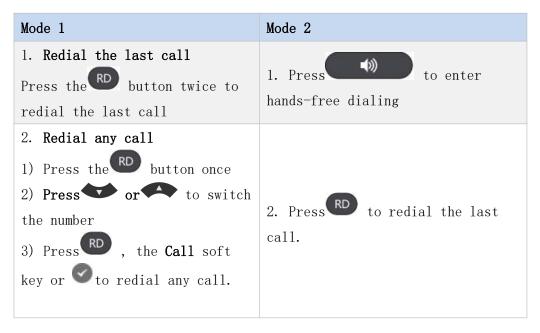
- Redialing with the handset



- 1. Pick up the handle.
- 2. Press **RD** to dial the last call.

- Use of hands-free redialing

Hands-free redial can be used in any of the following ways:



- Redialing using a headset

You need to activate the headset mode first, the specific activation method to see<u>Using the headset</u> section for details on how to activate the headset.

1. Redial the last call

Press the RD button twice to redial the last call.

- 2. Redial any call
 - 1) Press the **RD** button once.
 - 2) Press or to switch the number.
 - 3) Press **RD**, the Call soft key or **RD** again to redial any call.





You can set the phone for Do Not Disturb mode, after setting the Do Not Disturb mode, the phone will display DND icon on the upper right corner of the phone, the phone will not ring when receiving an incoming call and inform the other party that it is busy, and display a missed call alert on the local phone, as shown below:



DND has two modes to choose from:

- Phone Do Not Disturb (Factory Default Mode): Turning on this mode will turn on Do Not Disturb for all accounts.
- Customized Do Not Disturb: You can select a specified account to set do not disturb.

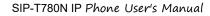
- Setting up do-not-disturb on web pages

- 1. Log in to the web interface.
- 2. Click Features (U) -> Call Forwarding & Do Not Disturb (4).
- 3. In the Do Not Disturb Settings area, select Do Not Disturb Mode:

Phone or Custom Mode.

4. If you select Custom Mode, select the extension you want to turn on Do Not Disturb.

- 5. The Do Not Disturb status is set to On.
- 6. Click Submit to save.



		Mode	Phone	~	be forwarded.
L Ds	sKey(D) 🔻	Account	Finite	~	 On Code The code that will be sent to PBX when it is
BB Fe	atures(U)			~	switched On.
For	ward&DND(4)	Always Forward	Off	-	 Off Code The code that will be sent to PBX when it is
Gei	neral Information(5)	Target	23002		switched Off.
Inte	ercom(n)	On Code			
		Off Code			
Aud	dio(")	Busy Forward	Off	~	
Key	ypad Lock(=)	Target			
Act	tion URL(6)	On Code			
Тга	insfer(?)	Off Code			
		No Answer Forward	Off	~	
	k up & Park(8)	After Ring Time(0~120s)	0	~	
SM	IS(9)	Target			
Rei	mote control(!)	On Code			
Pov	wer led(<)	Off Code			
Not	tification Popups(/)	DND			
Hot	tline	Mode	Phone	¥	
Se Se	ttings(E) 🗸	Account	6002	~	
-00-	rectory(B) -	DND Status	On	~	
	curity(F) -				
0.36	scunty(r)	Can	cel(c) Confirm(s)		
	Description	The Do Not Di	sturb mode can	n only be set	in the web
	inter	face.			
	INCO	1400.			

- In phone mode, turn on Do Not Disturb in the phone screen.

1. Press the **Do Not Disturb** soft key while the phone is in standby to set it.

2. or press Menu->Functions->Do Not Disturb.

3. Press the **Toggle** soft key to toggle.

switch

4. Finally, press the Save softkey to save the operation.

When Do Not Disturb is turned on, the DND icon is displayed in the upper right corner of the phone.



- Enable Do Not Disturb in the phone interface in customized mode

 When the phone is in standby, press the Do Not Disturb soft key or
 press Menu->Functions->Do Not Disturb to enter the customized Do Not
 Disturb setting interface.

2. Press or or to select the account for which you want to set up



Do Not Disturb.

3. Press the **Toggle** soft key or the **Left and Right** buttons to select Enable.

4. Press the **Save** soft key or the 🖤 key to save the operation.

Call transfer

After setting the call transfer on, the external call to the IP phone will be automatically transferred to the set up of other phones or cell phones, call transfer is divided into two types, when the phone has an incoming call ringing press the **transfer** soft key to dial the number to transfer (active transfer), when the phone has an incoming call automatically transferred to a pre-set number (automatic transfer).

Active transfer

- Transfer operation process

1. When there is an external incoming call, the handset is in the ringing state.

- 2. Press the **FWD** soft key.
- 3. Enter the number to be transferred.
- 4. Press the 🖤 button/Send soft key to transfer the call.

Ringin	g	
6	002	6011
6	002	6012
Answer	FWD	Silence Reject

Automatic transfer

There are several main types of automatic transfers:

ullet Unconditional transfer: all incoming calls to the phone are



transferred to the preset number .

- •Busy Transfer : When the phone is busy, calls are transferred to a preset number.
- •No-Answer Transfer: When no one answers during the ringing period of an incoming call, the call is transferred to a preset number after a timeout.

-Set the call forwarding authentication number through the web page interface:

1. Click on Features (U) \rightarrow Call Forwarding & Do Not Disturb (4);

2. Enable Call Forwarding Emergency Number under Call Forwarding Area;

3. Enter the corresponding numbers in the Call Forwarding Authentication Number field, with multiple numbers separated by ",";

4. Click Submit to save the operation.

After the authentication number is turned on, the number comes to the telephone set without transfer processing, and the authentication number is applicable to all accounts;

IP Phone			Eng	lish (English) 🔹 📔 💽 admin 👻
Menu	Features-Forward&DND			Note
🚣 Status(S) 🗸	Forward			Forward
🙆 Account(A) 🗸 🗸	Forward Emergency	Enabled	~	This feature allows you to forward an incoming call to another phone number.
🚱 Network(N) 🗸	Forward Authorized Numbers			Target The number to which the incoming calls will
🛫 DssKey(D) 🗸	Mode	Custom	~	be forwarded. On Code
	Account	6002	~	The code that will be sent to PBX when it is switched On.
Forward&DND(4)	Always Forward	On	~	Off Code
General Information(5)	Target			The code that will be sent to PBX when it is switched Off.
	On Code			
Intercom(n)	Off Code			
Audio(")	Busy Forward	Off	~	
Keypad Lock(=)	Target			
Action URL(6)	On Code			
Transfer(?)	Off Code			
Pick up & Park(8)	No Answer Forward	off	~	
SMS(9)	After Ring Time(0~120s)	0	~	
	Target			
Remote control(!)	On Code			
Power led(<)	Off Code			
Notification Popups(/)	DND			
Hotline	Mode	Custom	~	
కర్ణి Settings(E) ▼	Account	20801	~	

- Setting up call forwarding through the web interface
- 1. Press Function (U) -> Call Forwarding & Do Not Disturb (4).



2. Select the mode under the Call Forwarding Mode area:Custom: Custom mode enables the call forwarding feature for a specific account or for all accounts; Phone Mode: the call forwarding feature will be applied to all accounts on the phone.

3. Select the transfer method to be set as desired and select On.

4. Fill in the target number to be transferred.

5. Setting the feature code on and off in the call forwarding area

(optional)

6. Click the Submit button at the bottom of the page to save

Menu	Features-Forward&DND			Note
Arr Status(S)	Forward			Forward This feature allows you to forward an
Account(A) 🗸	Forward Emergency	Disabled	~	incoming call to another phone number.
Network(N) +	Forward Authorized Numbers			Target The number to which the incoming calls will
🛃 DssKey(D) 🗸	Mode	Custom	~	be forwarded. • On Code
Features(U)	Account	23001	~	The code that will be sent to PBX when it is switched On.
Forward&DND(4)	Always Forward	On	~	Off Code
	Target	23006		The code that will be sent to PBX when it is switched Off.
General Information(5)	On Code	*72		
Intercom(n)	Off Code	*73		
Audio(")	Busy Forward	Off	~	
Keypad Lock(=)	Target			
Action URL(6)	On Code			
Transfer(?)	Off Code			
Pick up & Park(8)	No Answer Forward	Off	~	
SMS(9)	After Ring Time(0~120s)	0	*	
	Target			
Remote control(!)	On Code			
Power led(<)	Off Code			
Notification Popups(/)	DND			

Note: If you configure a call forwarding feature code, the phone will send the corresponding feature code to the server. For example, if you set the feature code of unconditional transfer on to *72, and the feature code of unconditional transfer off to *73, and the transfer number is 1000, when you turn on the unconditional transfer, the phone sends *721000 to the server, and when you turn it off, it sends *731000 to the server, so that the server can synchronize the unconditional transfer function to be turned on/off.

- Setting up call forwarding through the phone interface

- 1. Press Menu->Functions->Call Forwarding.
- 2. Select the transfer method to be set as desired:
 - \diamond unconditional transfer
 - 1) Press or to select Unconditional Transfer.
 - 2) At the Status option, press the Toggle soft key to turn



on/off.

3) Press or to select the number item and fill in the number in case of unconditional transfer.

4) (Optional) Enter the unconditionally transferred on feature code and off feature code in the on feature code and off feature code areas, respectively.

5) Press the Save soft key to save the operation.

Alw	ays Forward——
1.Always	Forward:
disable	4
Back	Switch Save

♦ Call forwarding when busy

1) Press or to select Busy Transfer.

2) At the Status option, press the **Toggle** soft key to turn on/off.

(3) Press or to select the number item and fill in the number in case of busy transfer.

4) (Optional) Enter the on feature code and off feature code for busy transfer in the on feature code and off feature code areas respectively.

5) Press the Save soft key to save the operation.

-Bu	sy Forward-
1.Busy F	orward:
disable	4
Back	Switch Save

 \diamond Nonresponsive transfer

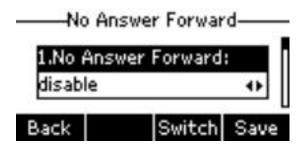
Press or to select entering No Answer Transfer.
 At the Status option, press the Toggle soft key to turn on/off.



3) Press or to select the number item and fill in the number to be transferred.

4) Press or to select no answer time, fill in the waiting time before you want to transfer, default 5Seconds.

5) (Optional) Enter the on feature code and off feature code for no-answer transfer in the on feature code and off feature code areas respectively



6) Press the **Save** soft key to save the operation.

When Call Forwarding is turned on, the LCD screen displays the Call Forwarding Enabled icon when the phone is in standby.



Description If the call forwarding feature has been set up in advance, call forwarding can be quickly turned on/off by using the TRANSFER button on the phone panel.

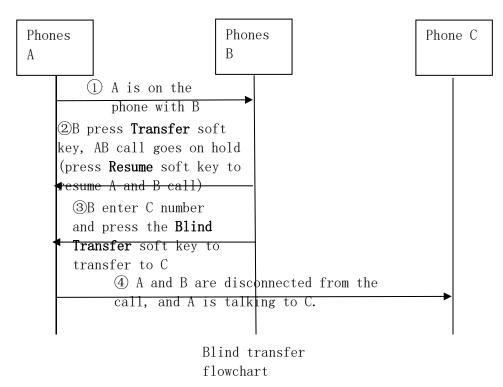
Call forwarding



Call transfer is categorized into the following two types:

- Blind transfer: Direct transfer to the other party without consultation with the transferring party.
- Consultation transfer: transferring incoming calls to the person to whom the call is to be transferred when the consultation with the person to whom the call is to be transferred has been completed and the transfer has been agreed upon.

Blind transfer



- Blind transfer operation process:

- 1. Handset A is talking to handset B.
- 2. Handset B presses the Transfer soft key or the Transfer button.
- 3. The called number input for blind transfer can be done in the

following two ways:

a) Enter the number directly

1) B enter the number of the transferred phone C. After entering the number, the **blind transfer(BTra)** soft key appears on the LCD

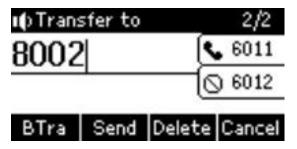


display of the phone B.

2) Phones B press the BTra soft key.

3) The call between B and A will be interrupted and the incoming

call is forwarded to Phone C.



b) Selecting numbers by contact

1) B Press the **Dir** soft key.

2) Press or to select a group and press the Enter soft key to enter the group.

3) Press or to select the contact to be transferred and press the Send soft key.

4) Press or to select the phone or cell phone you want to transfer to and press the **Transfer** soft key to blind transfer.

5) The call between B and A will be interrupted and the incoming call is forwarded to Phone C.

Dia	
Office Number:8	002
Mobile Number: 13	36523658987
Back	Send

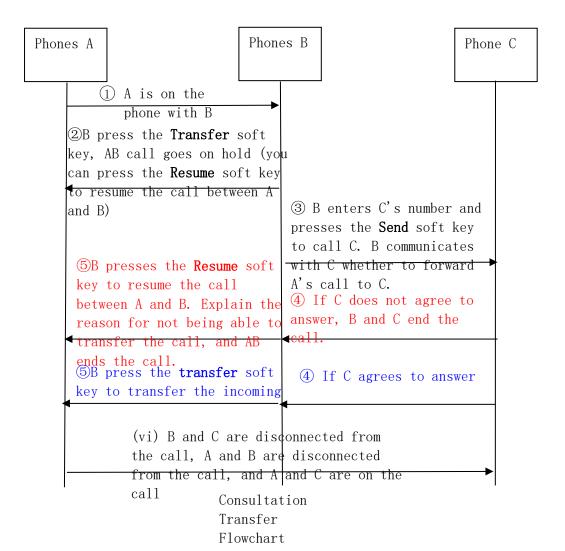
- Eliminate the blind turn operation process:

When Phones A and B are talking, after Phones B presses the **Transfer** soft key, Phones B and A will enter a call hold state, and the calling party will hear the ringing of the call hold, and if they want to exit the transfer operation, press the **Resume** soft key, and the call



between Phones B and A will be resumed.





Advisory Transfer

- Consultation transfer operation process:

1. Phone A is talking to phone B.

2. Phone B presses the Transfer soft key or the Transfer button.

3. Enter the number of the transferred phone C. The LCD display shows the **Send** soft key.

4. After pressing the SEND soft key, phone B will talk to phone C. Phone

B ask phone C if he wants to accept an incoming call from Handset A.

5. It is divided into the following two cases:

a) Phone C is unable to answer the call

1) Phone C refuses to answer a call from A or Phone C is



unavailable.

2) Phones B and C end the call.

3) Phone B presses the **Resume** soft key to resume the call with Phone A and informs Phone A that it is unable to answer.

4) End of transfer.

b) Phone C can answer the call

1) Phones B and C have finished negotiating, and Phones C can answer incoming calls from Phones A.

2) Phones B presses the transfer soft key.

3) The call between B and A will be interrupted and the call will be forwarded to C and A will talk to C.

Call Waiting

If you enable Call Waiting feature, you can receive new incoming calls during the call, otherwise new incoming calls will be automatically rejected during the call, if you enable the Play Tone feature, when you receive a new incoming call during the call, the handset will ring a "beep" tone, otherwise new incoming calls will not be reminded.

- Setting up call waiting via the web

1. Click Menu \rightarrow Features (U) \rightarrow General Information (5).

2. Enable call waiting, set on/off feature code (different feature code for different PBX).

3. Press Submit to save the operation or Cancel to cancel it;

If Enable/Disable Feature Code is set, when Enable/Disable Call Waiting the phone will use the default account to send the feature code to the server (only this account is enabled not all accounts) to synchronize Enable/Disable Call Waiting;

If the phone does not have a feature code set:

When the server turns on call waiting, the phone turns on and off call waiting normally;



It is not valid for the phone to turn on call waiting when the server does not turn on call waiting;

PIN call

If you are making a call and do not want the caller to see the number you are dialing you can enable passcode calling.

- Setting up password calls via the web

- 1. Click Menu \rightarrow Features (U) \rightarrow General Information (5).
- 2. Setting up a password call;

PswPrefix	10	
PswLength	5	
PswDial	Enabled	~

3. Press Submit to save the operation or Cancel to cancel it;

The last 5 digits of a number starting with 10 will be replaced by * after successful configuration;

Call hold

When you have an emergency to deal with while you are on a call, you can press the Hold button to enter the call hold state, and the server will play a hold tone for the other end.

n() Hold	
6002 6002	6011
Hold	6012
Trans Resum Ne	wCall EndCall

- Setting the Hold Tone via the Web
- 1. Click Menu \rightarrow Functions (U) \rightarrow Basic Information (5).

2. Setting the hold tone.

- a) Call Hold tone;
- b) Call Hold tone delay;
- c) Hold tone interval;



- d) Call Held Tone;
- e) Call Held tone delay;
- f) Held beep interval;

3. Press Submit to save the operation or Cancel to cancel it;

When you enter Hold Mode after turning on the beeper, the beeper will play "Di";

- Setting RFC 2543 Hold Mode via the Web

- 1. Click Menu \rightarrow Account (U) \rightarrow Advanced (5);
- 2. Set to enable disable RFC 2543 hold mode;
- 3. Press Submit to save the operation or Cancel to cancel it;

The PBX does not play hold tones when RFC 2543 hold mode is enabled;

Automatic redial

If you enable auto redial, the phone will show auto redial prompt in LCD interface after call failure, you can also set auto redial interval and auto redial times.

-Set up automatic redialing through the phone interface:

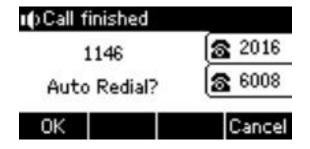
1. Press Menu \rightarrow Features \rightarrow Auto Redial;

2. Select Enable Auto Redial, set Auto Redial Interval (in seconds, default 10,

1.Auto Red	dial:
enable	4

range 1-300), and set Redial Counts (default 10 range 1-300);

3. Press Save to save the operation or Return to cancel it. The following screen appears when the phone call fails:





Press the **OK** soft key to activate the Auto Redial feature.



Press the OK soft key or wait for a period of time (redial interval) and the phone will call out the number again.

-Set up automatic redialing through the web interface:

1. Press Features (U) \rightarrow Basic Information;

2. Select Enable Auto Redial, set Auto Redial Interval (in seconds, default 10,

range 1-300), and set Redial Count (default 10 range 1-300);

lenu	Fe	atures-General Information			Note	
Status(S)	•	Call Waiting	Enabled	~	Call Waiting	
Account(A)	-	Call Waiting On Code			This call feature allows your phone to accep other incoming calls during the conversation	
Network(N)	.	Call Waiting Off Code			 Key As Send Select * or # as the send key. 	
DssKey(D)	.	Auto Redial	Enabled	~	Hotline Number	
Features(U)		Auto Redial Interval (1~300s)	10		When you pick up the phone, it will dial out the hotline number automatically.	
	-	Auto Redial Times (1~300)	10			
orward&DND(4)		Accept SIP Trust Server Only	Disabled	~		
Seneral Information	(5)	Key As Send	#	~		
ntercom(n)		Reserve # in User Name	Disabled	~		
Audio(")		Busy tone duration (seconds)	3	~		
(eypad Lock(=)		Return Code When Refuse	486 (Busy Here)	~		
ction URL(6)		Return Code When No Answer	486 (Busy Here)	~		
ransfer(?)		Return Code When DND	480 (Temporarily Unavailable)	~		
		Call Completion	Disabled	~		
Pick up & Park(8)		180 Ring Workaround	Disabled	~		
5MS(9)		Logon Wizard	Disabled	~		
Remote control(!)		PswPrefix				
Power led(<)		PswLength				
lotification Popups	(/)	PswDial	Disabled	~		
lotline		Save Call Log	Enabled	~		

3. Click the **Submit** button at the bottom of the page to save it.

Status return code

The phone can set the status return code for Reject/No Answer/Do Not Disturb.

- Setting the status return code through the page
 - 1. Log in to the Web interface.
 - 2. Click Features (U) \rightarrow Basic Information (5).
 - 3. Set the status return code supporting: 404/480/486/600/603.



4. Click the **Submit** button at the bottom of the page to save the configuration.

After successful configuration the phone sends the corresponding return code to the peer:

Call completion.

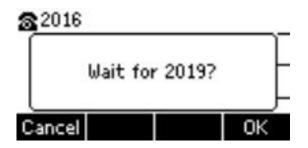
When the phone is enabled for call completion, the phone enters the call completion prompt interface when calling a user in busy state, and the server will notify the phone to redial when the called user turns to idle state after clicking Confirm.

- Set Call completion via web setup

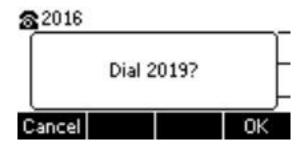
1. Function (u) \rightarrow Basic Information

2. Select Enable

When the called user is busy, the phone interface prompts as follows:



After pressing Confirm, when the called user turns to idle status, the phone interface will show the following prompt:



Busy state has been tested to detect only the call state, other states are not detected, all others will prompt the calling user to switch to idle state.

Other can only enter the busy state when it is not possible to dial, it is not possible to detect whether it is idle or not, e.g., DND, blacklist, etc. are not detected;

If the user's transferred number dialed by the phone is busy, the phone will enter the call completion interface but cannot detect the transferred number status, and after detecting the normal state of the dialed phone, it will be prompted to dial the number. For



example, if the call completion is enabled on phone A (call completion), phone B (called number, unconditional transfer to phone C is enabled), and phone C (transferred number, DND is enabled), phone A dials phone B, and phone A enters the call completion interface, and after a period of time, it will jump to the dialing interface, and it will not be affected by whether or not DND is turned off on phone C.

Attention:

Call completion requires server support.

Call Completion If there are multiple calls only the dialed call hangs up and prompts for dialing;

Multiple call waiting screens will not appear, and the call waiting screen disappears after operating the call;

Exit Call Waiting prompt does not disappear before entering the dialing screen without dialing, and incoming calls do not interrupt call completion.

Auto-answer

You can set up an auto-answer function for the registered account of the phone. When an account with auto-answer enabled receives an incoming call, the phone will automatically answer the call after the set auto-answer wait time.

- Setting up Auto-Answer through the handset interface

- 1. Press Menu->Functions->Auto Answer.
- 2. Press or to select the account you want to enable auto-

answer.

- 3. Press the Toggle soft key to toggle the enabled or disabled state.
- 4. Press the Save soft key to save the operation.

	uto Answer
1.Accourt	t ID:
Acc 1	0
Back	Switch Save

When Auto Answer is turned on, the Auto Answer icon AA appears on the display of the handset standby, indicating that the handset is in the Auto Answer state. When the phone is in a call state, it will not answer automatically.





Anonymous call

The phone can turn on the anonymous reject feature to automatically reject an anonymous call when it comes in. If the server supports the anonymous reject function, you can also turn on/off the anonymous reject function of the account by dialing the server's service code.

At the same time, the phone can turn on the local anonymity function, the call initiated by this phone, the other party can not see the caller number, but after turning on the anonymity of the other party may be rejected.

- Setting up an anonymous reject function through the phone interface
 - 1. Press Menu->Functions->Anonymous Call.

2. Press the **Toggle** soft key to toggle the Enable or Disable state of **Anonymous Reject**.

3. Press the Save soft key to save the operation.

Ano	nymous Call
2.Anonym	nous Rejection:
disable	•
Back	Switch Save

- Setting up local anonymization through the handset interface

1. Press Menu->Functions->Anonymous Call.

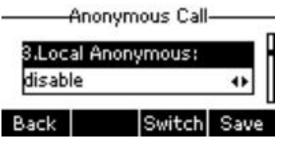
2. Press or to select the local anonymization option.

3. Press the Toggle soft key to toggle the local anonymization enabled



or disabled state.

4. Press the Save soft key to save the operation.



- Setting up anonymous reject/local anonymization through the web

interface

- 1. Log in to the Web interface.
- 2. Click Account->Advanced, as shown below.
- 3. Select the account for which you want to enable anonymous rejections.
- 4. Select Enable in the Anonymous Reject field/Local Anonymous field.
- 5. Click Submit to save.



Hotline

You can set a frequently dialed number as the hotline. When using the hotline, when you pick up the handset, press the speakerphone, or use the headset for dialing, wait for the hotline delay time to expire, and the phone will automatically dial the set hotline number. If the delay time is set to 0, the hotline number will be called out immediately upon



dialing.

- Setting up hotline functions through the telephone interface

- 1. Press Menu->Functions->Hotline.
- 2. Fill in the hotline number to call.

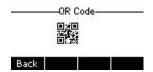
3. Press or to select Hotline Delay Time and fill in the number of seconds after the handset is taken off the hook to automatically dial the hotline.

4. Press the Save soft key to save the operation.

	-Ho	tLine	202				
2.Hotl	2.Hotline number:						
12345							
Back	123	Delete	Save				

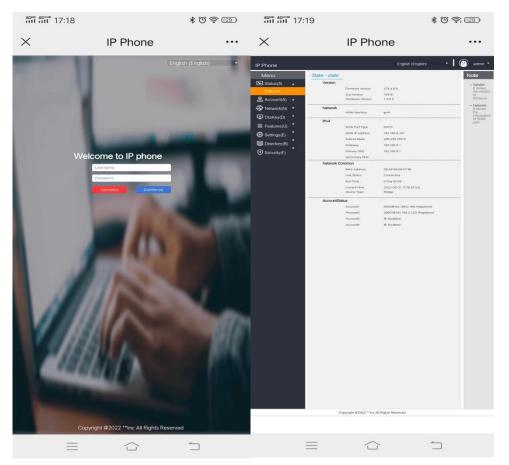
Two-dimensional barcode

The T780N supports scanning the QR code provided by the phone to access the web interface, so as to configure the information of the phone on the cell phone. Before scanning the QR code, the cell phone must be connected to the same LAN as the phone, e.g. connected to the router's WIFI.



The interface of the cell phone logging in the phone likes the following figure, the specific use method is the same as the computer web operation, to understand the configuration method of each function, please go to the function introduction of each chapter to view, if there is any question about the use of QR code, please contact your network administrator.





Conference

The T780N can initiate a three-way call locally and use the **Conference** softkey during a two-way call to invite a third-party call into the current call.

- Create a local three-way call at the phone

1. It happens in the middle of a call between A and B.

2. A presses the **Conference** soft key to initiate a three-way call, the call between A and B goes on holding, and A enters the dialing interface.

3. A Enter the C number and press the **Dial** soft key.

4. When C answers the incoming call, A presses the **Conference** soft key and ABC will start a three-way call.

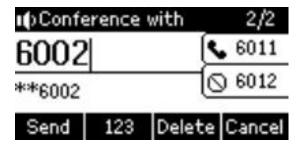




- Add calls from both accounts to a three-way call

 Account 1 of Handset A is talking to Handset B, and Account 2 of Handset A is talking to Handset C (but is on hold).

2. If Account 1 is on a call and Account 2 is on hold, press or to switch the call, using account 1 that is on a call, press the **Conference** soft key to enter the dialing page, press to select the held call, and press the **Send** soft key to start the three-way call.



- What you can do during a three-way call

 Split soft key: You can split a three-way call into multiple independent calls, press or to switch between calls.

2. Hold soft key: You can put two other parties on hold and press the Resume soft key to resume the three-way call.

3. Manage Soft key: Enter the Management page to perform the following operations on the other two parties' calls:

1) Delete softkey: deletes the selected conference member.

2) Hold softkey: Holds the selected conference member.

3) Return softkey: return to the previous level interface.

4. Mute button: so that the other two parties can not hear your own voices, and the other two parties can still make a call.

146



5. Hang up soft key: ends the meeting.

Update

The T780N can be upgraded to the latest version via the Web. The latest version can be downloaded from the official website or contact your dealer for a copy.

- Upgrade Firmware Version via Web

Through the web interface, click Settings->Upgrade->Upgrade
 Firmware, select the version that needs to be upgraded and click
 Upgrade.

Menu	Settings - Upgrade
🚣 Status(S) 🗸	Version
Secount(A) -	Firmware Version V78.5.0.1
Network(N) 🔹	Hardware Version 1.0.0.0
🛫 DssKey(D) 🗸 🗸	Reset to Factory Setting Restore factory settings(f) ?
B Features(U)	Reboot Restart(o) ?
ද්ථූ Settings(E) 🔺	Select and Upgrade Firmware 1 Select the file Browser Upgrade(g) ?
Preference(i)	2
Time & Date(t)	
Time Manager	
Upgrade(u)	

2. Disconnection of power and network is prohibited during the upgrade process, otherwise irreversible problems may occur, such as inability to power on the phone.

Upload ringtones

The T780N phone can upload customized ringtones via the Web.

- Upload customized ringtones via Web
- 1. Click Settings->Preference->upload Ringtones through the web



interface.

2. Select the ringtone you want to upload in the Load ringtone item,

Status(S) 🗸 🗸	Automatic breathe out	Disabled	~		
Account(A) -	Automatic exhaling startup time (1~14 sec	4			
etwork(N) -	Backlight Time	30s	~		
ssKey(D) 🗸	Ring Type	Ring1.wav	~		_
eatures(U) 🗸	Upload Ringtone	Select the file 1		Browser Impor	1 2
ettings(E)	Upload BootUp	Select the file		Browser Impor	
	ScreenSaver Time	Disabled	~		
eference(i)	ScreenSaver Mode	System	~		
me & Date(t)	Upload ScreenSaver	Select the file		Browser Impor	t
me Manager	watchdog	Enabled	~		
pgrade(u)		_	_		
onfiguration([)	Can	cel(c) Confin	π(s)		

click the Import button to import the ringtone (maximum ringtone limit:100KB).

3. After successful upload you can select it in the ringtone type option.

Capture & Diagnose

The T780N phone can be used to capture packets via the Web for professionals to easily locate phone problems.

- Grabbing packets from the web

- 1. Click Network Configuration->Diagnostics from the web page.
- 2. Select the packet capture method.
- 3. Click Start and download the file after the packet capture is finished.

- Diagnosing the network through the web

- 1. Click Network Configuration->Diagnostics from the web page.
- 2. Select the diagnostic command.
- 3. Click Submit to check the network status.

- Network diagnostics via phone

1. The phone clicks Menu->Settings->Basic Settings->Diagnostics-



>Network.

2. Select Ping or Route Trace, enter the IP address or URL and click

Start.

Ping
PING 192.168.17.3 (192.168.
17.3): 56 data bytes
Back

Scheduled reset

The T780N phone can be set to restart automatically via the web page, it is disabled by default.

- Configure automatic reboot via web page
- 1. Click Settings->Time Management through the webpage.
- 2. Configure the restart program.
 - a) Auto Restart Enable/Disable;
 - b) Configure the restart time;
 - c) Configure the restart date;
- 3. Click Submit to save the configuration.



Auto Reboot		
Auto Reboot	Disabled	•
Time	0:0:0	
Weekly	Sun	
	Mon	
	🗆 Tue	
	U Wed	
	🗆 Thu	
	🗆 Fri	
	Sat	

Configuration management

T780N phones can import/export configurations via web page, and the configurations can be common for the same model.

- Configuration management via web page

- 1. Click Settings->Configuration Management from the web page.
- 2. Click the Export button to export the bin configuration file.
- 3. Select a configuration file and click Import to import the

BIN Configuration		
Export or Import Configuration	Select the file	Browser
	Import Export	

configuration.



Advanced Features

This chapter introduces the advanced features of the T780N telephone as follows:

- ► <u>BLF</u>
- ▶ walkie-talkies
- <u>multicast</u>
- Messages
- ➤ <u>TR069</u>
- SIP Configuration
- Action URL
- Trusted Certificates

BLF (Busy Lamp Field)

You can use the BLF feature to monitor the account usage status of a particular user. For example, you can configure a BLF key on the phone to monitor a coworker's account usage status (busy or idle). When a coworker's account is busy, the BLF key's LED light turns red to indicate that the coworker's account is busy.

Configure the BLF function:

You can configure the function of BLF monitoring on the phone, and the monitored phone does not need to do the configuration.

Configuring the BLF key

- Configure BLF keys through the phone interface
- 1. Press Menu → Function → Programmable Key.
- 2. Select the account key for which you need to set the BLF.
- 3. Press or to toggle and select BLF in the Type field.



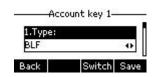
4. Press or to toggle and select the appropriate account in the Account ID area.

5. (Optional) Enter the label to be displayed in the standby screen in the Label field.

6. Enter the number to be monitored in the value field.

 (Optional) Enter the intercept feature code in the extension number field. Sip server support is required.

8. Press the **Save** soft key to save the operation or the **Back** soft key to cancel the operation.



- Setting the BLF key through the web interface

1. Web page click **Programmable Keys -> Account Key**.

2. Select the account key for which you need to set the BLF.

3. Select BLF in the **Type** drop-down box.

4. Enter the account you want to monitor in the Value field input box.

5. (Optional) Enter the label to be displayed in the standby screen in the label input box.

6. Select the corresponding account in the Account drop-down box.

7. (Optional) Enter the Intercept Characteristic Code in the **extension number** entry box. sip server support is required.

8. Click Submit to save the operation or Cancel to abandon the operation.



Menu	Dsskey line ke	ey 🛛						Note
⊷ Status(S) 🗸	Key	Туре		Value	Label	Account	Extension	
🖳 Account(A) 🛛 👻	Line Key1	Account	~	value	Laber	Account1 V		
子 Network(N) 🗸 🗸	Line Key1	BLF		20802		Account2 V		
- 로 DssKey(D) 🔺			•	20002				
Line Key(w)	Line Key3	Account	*			Account3 🗸		
	Line Key4	Account	~	_		Account4 🗸		
Programmable Key(7)	Line Key5	N/A	~			¥		
E Features(U) -	Line Key6	N/A	~			~		
🔅 Settings(E) 🗸 🗸	Line Key7	N/A	~			~		
Directory(B) 🗸	Line Key8	N/A	~			~		
🕀 Security(F) 🗸 🗸	Line Key9	N/A	~			~		
~	Line Key10	N/A	•			~		
	Line Key11	N/A	~			~		
	Line Key12	N/A	~			~		
				Cancel(c)	Confirm(s)			

Using the BLF Function

The BLF key is used in the following way:

• Calling the monitored account.

When the monitoring account is idle, press the BLF key and the phone calls out the monitoring account.

• Intercepting calls from monitored accounts.

When an incoming call is received from a monitored account, the LED of the BLF key corresponding to the monitored account turns red. If the extension number is configured as an Intercept Feature Code, the incoming call from the monitored account is answered when the BLF key is pressed.

Walkie-talkies

By setting the account number key as the intercom function, you can speed dial the called number that has been set when pressing the account number key, and quickly connect to your secretary or operator in an office environment. The called party of the intercom will automatically answer the intercom call.

Setting the intercom function buttons



Before using the intercom you need to set up the account key function as an intercom key, see Programmable Keys for details on how to set this up, for help please contact your network administrator.

Intercom function setting

- Turn on the intercom through the handset interface
 - 1. Press Menu->Features->Intercom.
 - 2. Press or to select the intercom function.
 - 3. Press the ${\bf toggle}$ soft key to turn the function on/off .
 - 4. Press the **Save** soft key to save.

- Turning on the intercom through the web interface

- 1. Log in to the phone page by IP address.
- 2. Click Features (U) -> Intercom (n).
- 3. Select different functions in the type selection.
- 4. Press Submit to save when you have finished selecting.

functionality	clarification
Enable walkie-	Enable or disable the intercom function.
talkies	Enable of disable the intercom function.
Walkie Talkie	Enable or disable mute on the handset for
Mute	incoming intercom calls.
intercom tone	Enable or disable the intercom tone for
intercom tone	incoming intercom calls.
Intercom	Enable or disable access to incoming
Intervention	intercom calls while you are on a call.

Intercom function description

Multicast



Multicast allows you to send time-sensitive announcements to each member of a multicast group simply and quickly. Send RTP streams to preconfigured multicast addresses via multicast keys or multicast lists set on the phone. By setting up a listen multicast address on other phones, the phones can listen to and play RTP streams sent from the multicast address. The multicast process does not involve SIP signaling. Phones can be set to listen to up to 31 multicast addresses.

Multicast Configuration

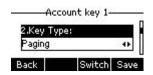
- Configuring Multicast Keys via the Handset
- 1. Press Menu \rightarrow Features \rightarrow Programmable Key.
- 2. Select the account key for which you need to set up multicast.
- 3. Press or to toggle and select Key Event in the Type area.
- 4. Press or to toggle and select Multicast in the Key Type area.

5. (Optional) Enter the contents of the standby screen display in the **label** area.

6. Enter the multicast address IP address + port number in the **value** field, IP range 224.0.0.0-239.255.255.255.

7. Enter the appropriate channel number in the channel area: 0-30.

8. Press the **Save** soft key to save the operation or press the **Return** soft key to cancel the operation.



- Configuring Multicast Keys via the Web Interface

1. Web Programmable Keys \rightarrow Account Key.

2. Select the account key for which you need to set up multicast.

3. The Type area drop-down box is set to Multicast.

4. The **Value field** input box is filled with the multicast address IP address + port number, IP range 224.0.0.0-239.255.255.255.



5. (Optional) Enter the contents of the standby screen display in the **label** area.

6. Enter the appropriate channel number in the extension number area: 0-

30.

Key	Туре	Value	Label	Account	Extensior
Line Key1	Multicast 🗸	225.1.1.1:1008		~	0
Line Key2	Account 🗸			Account2 🗸	
	1	Cancel(c)	Confirm(s)		

7. When finished, click **Submit to** save the operation or **Cancel to** abandon the operation.

Multicast List Configuration

- Configure multicast lists through the phone

- 1. Press Menu->Functions->Multicast List.
- 2. Press or to select the appropriate group.

P-	aging List———
1.(Empty)	
2.(Empty)	
3.(Empty)	l
Back	Option Paging

The label defaults to empty before configuration.

3. Press the Options soft key, and then press the Edit soft key.

4. Enter the multicast IP address and port number in the **address** area (for example: 224.5.6.20:10008).

- 5. Enter the group name in the label area.
- 6. Enter the appropriate channel number in the channel field.

Valid channels are numbered 0 through 30.

7. Press Save Software to save the operation.



8. Repeat steps 2-7 to add more groups.

- Configuring Multicast Lists via the Web

- 1. Web Address Book \rightarrow Multicast Address \rightarrow Multicast List.
- 2. Fill in the Multicast Address input box with the multicast address IP address + port number (e.g., 224.5.6.20:10008).
- 3. Enter the group name in the label area.
- 4. Select the appropriate channel number in the Channel drop-down box.
- 5. Click Submit to save the operation when finished.

Remote Phone Book(1)	23			0 •	23
Phone Call Info(y)	24			0 •	24
LDAP(I)	25			0 🔻	25
Multicast IP(2)	26			0 🔻	26
(+) Security(F) -	27			0 🔻	27
	28			0 🔻	28
	Paging List				
	Index	Multicast IP	Label	Cha	annel
	1	224.5.6.20:10008		1	•
	2			0	•
	3			0	•
	4			0	•
	4 5			0	•
	5			0	•
	5 6			0	•
	5 6 7			0	•

- Configure multicast codecs via web page
- 1. Web Features \rightarrow General information.
- 2. Select: PCMA, PCMU, G722, G729 in Multicast Codec.
- 3. Click Submit to save the operation when finished.

- Deleting a multicast group through the phone interface

- 1. Press Menu->Functions->Multicast List.
- 2. Press or to select the appropriate group.
- 3. Press the **Options** soft key, and then press the Delete soft key. The phone's LCD screen prompts "Delete Group?".



4. Press the **OK** soft key to delete.

To delete all multicast groups, press the Delete All softkey.

You can also set the handling method of RTP streams received by the phone through the Web, which is categorized into paging intervention, penetrating DND, and paging priority, and the configuration path: Web Address Book \rightarrow Multicast Address.

IP Phone				English (English) 🔹 😧 admin 🔹
Menu	Directory-Multicast IP				Note
- Status(S) - ▼	Multicast Listening				
Secount(A) 🗸	Paging Barge	Disabled	~		
Network(N) •	Ignore DND	Disabled	~		
 ⊈ DssKey(D) →	Paging Priority Active	Disabled	~		
El Features(U)	IP Address	Listening Address	Label	Channel Priority	
्रिटे Settings(E) 🗸	22			0 💙 22	•
Directory(B)	23			0 💙 23	
Address List(x)	24			0 💙 24	
Remote Phone Book(1)	25			0 🗸 25	
	26			0 🗸 26	
Phone Call Info(y)	27			0 💙 27	
LDAP(I)	28			0 💙 28	
Multicast IP(2)	29			0 🗸 29	
Settings(%)	30			0 🗸 30	
	31 Paging List			0 💙 31	
	Index	Multicast IP	Label	Channel	
	1			o 🗸	
	2			0 🗸	
	3			0 🗸	
	4			0 ~	

1. Paging intervention: if there is a multicast during the call, if the current multicast priority is lower than the call priority, the phone will automatically ignore the multicast; disable it to ignore all multicasts, range 1-31. e.g., set the priority to 1 to ignore multicasts of priority 2-31.

2. **Penetrating DND**: If the phone opens Penetrating DND, priority 3; when the phone opens DND Mode, multicasts with priority greater than or equal to three can be answered normally.

3. Paging Priority: If you turn on Paging Priority, when the phone is



listening to a multicast RTP stream with priority 5, and a multicast RTP stream with priority 3 is sent at this time, the phone automatically receives a multicast RTP stream with priority 3.

Accept multicast RTP streams

You can set the phone to receive multicast RTP streams sent from pre-

Description RTP multicast listening is played in hands-free mode by default, if you want to play through other modes (hands-free, joystick or headset), please consult your system administrator.

configured multicast addresses. the multicast process does not involve SIP signaling. Up to 31 different multicast addresses can be configured to listen on the phone.

1. Paging intervention: if there is a multicast during the call, if the current multicast priority is lower than the call priority, the phone will automatically ignore the multicast; disable it to ignore all multicasts, range 1-31. e.g., set the priority to 1 to ignore multicasts of priority 2-31.

2. Penetrating **DND**: If the phone opens Penetrating DND, priority 3; when the phone opens Disturbance Free Mode, multicasts with priority greater than or equal to three can be answered normally.

3. Paging Priority: You can enable or disable Paging Priority, a feature that determines how the phone handles newly received multicast RTP streams when it is currently engaged in a multicast session. If you enable paging priority, the phone automatically ignores multicast RTP streams with low priority, receives multicast RTP streams with high or equal priority, and places the current multicast session on hold. If paging priority is disabled, the phone will automatically ignore all received multicast RTP streams.



- Set the multicast address to listen to via the web page:

1. click Directory(B) ->Multicast Addresses(2).

2. Select the appropriate value in the Paging Intervention drop-down box.

3. Select Enable in the Paging Priority drop-down box.

 In the Listening Address field, enter the multicast address to which you are listening: IP address and port number (for example: 224.5.6.20:10008).

5. (Optional) Enter a label in the label area. When a multicast RTP stream is received, the LCD interface displays the label for that multicast.

6. Select the appropriate channel in the Channel drop-down box, the default is 0.

7. Click Submit to save the operation.

IP Phone				English (English)	• admin •
Menu	Directory-Multicast IP				Note
🚣 Status(S) 🗸	Multicast Listening				
Account(A) 🗸	Paging Barge	3	~		
😂 Network(N) 🗸 🗸	Ignore DND	Disabled	~		
DssKey(D) 🗸	Paging Priority Active	Disabled	~		
E Features(U)	IP Address	Listening Address	Label	Channel Priority	
settings(E) ◄	1	224.5.6.20:10008		0 • 1	
Directory(B)	2			0 ¥ 2	
Address List(x)	3			0 × 3	
Remote Phone Book(1)	5				
Phone Call Info(y)	6			0 🗸 6	
LDAP(I)	7			0 🗸 7	
Multicast IP(2)	8			0 🗸 8	
Settings(%)	9			0 🗸 9	
⊕ Security(F)	10			0 🗸 10	
U Security(r)	Paging List				
	Index	Multicast IP	Label	Channel	
	1			0 *	
	2			0 🗸	
	3			0 ~	
	4			0 🗸	



Description The priority of the listening address is predefined: 1 is the highest priority and 31 is the lowest priority. You can only set the multicast address to listen to through the web interface.

Multicast Usage

Phone A sets up account 1 for multicast and account 2 for multicast list, and phones B, C, D, etc. set up listening addresses.

1. Multicast key sending: when the phone A is in standby state, press the account 1 multicast key, the pre-configured listening phone will receive the multicast RTP stream; when the phone A presses the hold key, the receiver will automatically hang up the multicast RTP session, and then press the resume key to restore the held multicast. Pressing Hangup ends the multicast RTP session.

2. Multicast list sending: press Multicast list in standby state, select the option you need to multicast and press Multicast, or press Menu→Function→Multicast list in standby state.

Caveats:

1. Multicast RTP streams are unidirectional and can only go from the sender to the receiver. When the phone is in a call, initiating a multicast RTP session the current call is on hold.

2. Multicast does not generate call records.

Message

Text message



The SIP-T780NNN IP phone can send and receive text messages. When receiving a new text message, the phone will emit a beep, the power indicator will flash red slowly, the LCD interface will indicate "n new text messages" (n means the number of unread text messages, e.g. 1 new text message), and the icon of unread text message will be displayed. The icon²⁰ is displayed for unread text messages.



SMS messages can be stored in the Inbox, Sent, Outbox and Drafts boxes, each with 100 messages. If the number of messages exceeds 100, the oldest messages are deleted.

- Read the text message:

- 1. Press Menu->Messages->Text Messages->Inbox.
- 2. Select the message you want to read and press the View soft key.



Description If the phone prompts to receive a new text message, you can simply press the View soft key to read it.

- Sends a text message:
- 1. Press Menu->Message->Text Message->New Message.
- 2. Compose a new message and press the abc soft key to switch the input

method.



New Message

hello!



3. Press the Send soft key.

4. (Optional) Press the **Toggle** soft key to select the sending account in the **From** area.

5. Enter the recipient's number in the **Send To** field.

6. Press the Send soft key to send a message or the Return soft key to cancel.

- Sending text messages through the web interface

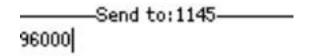
- 1. Log in to the web user interface.
- 2. Click Features (U)->SMS (9).
- 3. Select the sending account.
- 4. Enter the sending number.
- 5. Fill in the send content.
- 6. Click the Submit button to send the short message.

Account	1052@192.168.17.3	~
Send number		
send content		

- Respond to the text message:



- 1. Press Menu->Messages->Text Messages->Inbox.
- 2. Select the message you want to reply to and press the Reply soft key.
- 3. Write the message and press **abc** to switch the input method.





- 4. When you have finished writing, press the Send soft key.
- 5. Check the From and To areas and press the Send soft key.

- Delete the text message:

Press Menu->Messages->Text Messages->Inbox (Sent Messages, Outbox or Drafts).

2. Select the message to be deleted and press the **Options** soft key.

3. Select **Delete** and press the **OK** soft key to display "Delete Selected Information?" on the LCD screen. The LCD screen displays "Delete Selected Information?".



4. Press the **OK** soft key to delete and press the **Cancel** soft key to cancel.

To delete all SMS messages, press the **Options** soft key and select

Description You can delete a message by pressing the Delete soft key directly after you have received and viewed a specific short message.

Delete All. For more information, see the steps above.



Voicemail

The SIP-T780NNN phone can send and receive voice messages. You can subscribe to voice messages cached in the voice mailbox on the phone. This feature requires server pre-setting. Not all servers support voicemail.

When a new voicemail is received, the power lamp of the phone blinks red slowly, the LCD interface displays "N voice messages" (N means the number of unread voice messages, for example: 3 voice messages), and the voice message icon o is displayed.



- Send a voice message:

When the called user is busy or inconvenient to answer the incoming call, you can leave him a message according to the server's voice prompts, and hang up the phone after leaving the message.

- Set the voice message access feature code through the phone interface:

1. Press Menu->Message->Voice Message->Set Voice Feature Code.

2. Press or to select the account to be set up.

3. Enter the voice message access feature code (e.g., *97).

4. Press the **Save** soft key to save the operation or the **Return** soft key to cancel the operation.

- Listening to voice messages

1. Press the SMS soft key or call out the voice message accessed the feature code after setting the voice feature code.

2. Just listen to the voice message according to the voice prompts.

- Viewing Voice Messages



1. Press Menu->Message->Voice Message->View Voice Message.

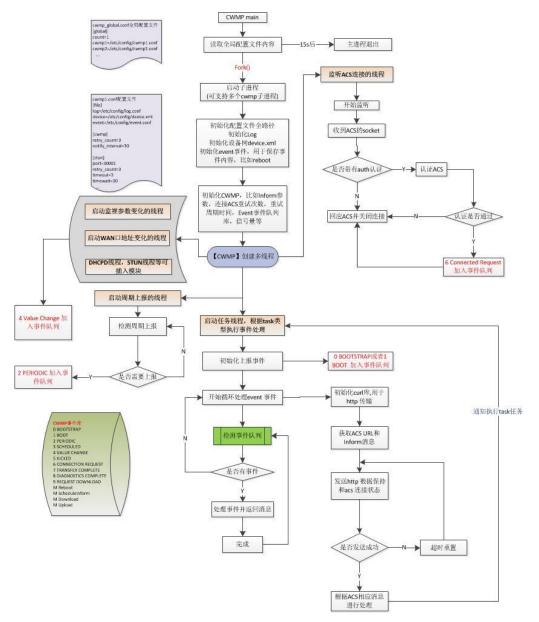
2. Select the account you want to listen to and press the **Connect** soft key to listen to the voice message.

TR069

TRO69 is the communication protocol between CPE and ACS. TRO69 is the communication protocol between CPE and ACS, through which CPE can complete initialization and operation management such as service activation, function setting, file uploading and downloading, and system testing.

TR069 workflow diagram for SIP-T780N phones:





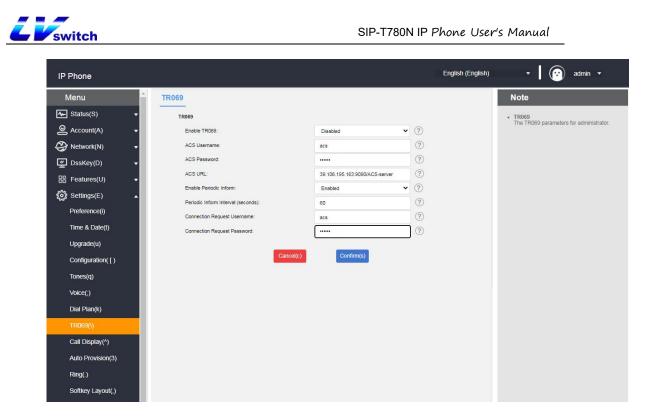
- Enabling TR069 through the web interface

- 1. Log in to the phone page by IP address.
- 2. Click Settings (E) \rightarrow TR069 (\).
- 3. Enable TR069. Enter: user name, password, and server address.

4. Enable periodic notification, periodic notification interval, user name, and password.

5. Press Submit to save when you have finished selecting.

As pictured:



Automatic update

Automatic updates can deploy the same configuration for multiple phones at scale.

Preparatory step

Prepare the necessary documents:

The following steps need to be performed before auto-configuration can take place:

- 1. Get Boot boot file;
- 2. Get the CFG configuration file;
- 3. Obtain information about the phone;
- 4. Setting up a renewed environment.

Bootstrap files, configuration files can be obtained by contacting your dealer for template files;

- The way to view information about the phone:



MAC: The phone is viewed in standby mode by pressing the OK key.

Phone Model: Standby phone press $OK \rightarrow More \rightarrow Equipment$, the product name is the phone model.

- Bootstrap file description:

When the phone is auto-configured, it will first try to download the common.boot boot file, and according to the boot file, the phone will be guided to refer to the specified CFG configuration file. The sequence is shown below:



- Configuration Profile Description:

Before you configure the phone, you need to get the CFG configuration file, common.cfg for the common configuration file, mac.cfg for the mac-based configuration file; you can also create your own needs according to their own needs of the configuration file such as account.cfg used to configure the phone account and so on.

The list of configuration support is as follows:

	Content
	Account, DTMF, User Agent, Time, STUN, Network,
Phone Configuration	Vlan, LLDP, CDP, Language, Signal Tone, QoS,
	Sound.
Function	Call Forwarding, Anonymous Calling, Intercom,



Configuration	TRO69, Programmable Keys, DND, Hotline, Voice
	Mailbox, Keypad Lock, Action URL, Auto Update.
Other	Upgrade the phone , pager configuration.
configurations	

Example: If the phone needs to be upgraded to a specific version and the language is set to Chinese, create a LanguageAndUp.cfg file, add the configuration and place it in the root directory of the server. #### Language ####

language_setting.languages = 0

Description If you set up an upgrade, the upgrade file must be in this directory or the upgrade will fail.

Upgrade

static.firmware.url = ftp://192.168.17.xx/V2.0.0.3_T780N_rootfs.sqhfs

Automatic update procedure

HTTP(S) method update

To configure the server, run HFS.exe directly; after running it, place the configuration file directly in the environment root directory; The configuration file contains files such as xx.boot and xx.cfg.



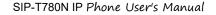
n in browser http://192.168.0.98:8808/ 🛛 👍	Need to configure this IP on web inter	face,	📄 Copy to clipboa
Virtual File System	Every server may different.	Log	
Click here can check the base	folder configuration files		
CITCK HERE CAIL CHECK THE Dase	loider configuration files		
address 📃 File	Status Speed Time	Progress	

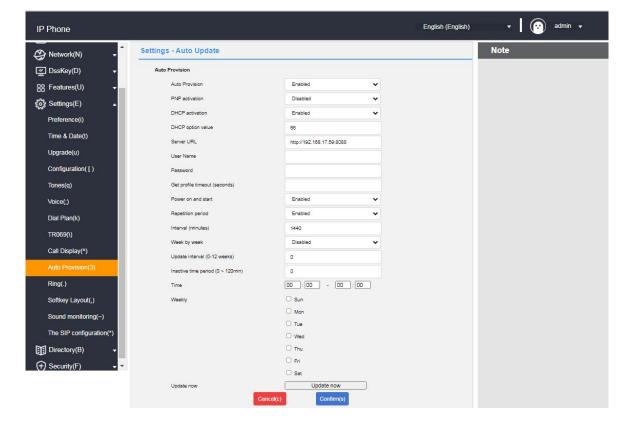
Root directory file map:

称	修改日期	类型	大小		
IME	2019/8/29 13:48	文件夹			
XML	2019/8/29 13:48	文件夹			
805ec059571d.cfg	2020/7/17 17:39	CFG 文件	1 KB		
common.boot	2020/11/26 13:07	BOOT 文件	1 KB		
] common.cfg	2020/11/26 14:20	CFG 文件	20 KB		
] mac.cfg	2019/6/13 13:49	CFG 文件	21 KB		
V2.0.0.3_T780_rootfs.sqhfs	2020/11/27 11:08	SQHFS 文件	10,418 KB		

Setup Steps:

Web-side Settings(E) \rightarrow Auto Update \rightarrow Fill in http(s) address in Server Address e.g.: http(s)://192.168.17.xx to enable power-on startup; automatically configure the information to be updated after reboot.





FTP/TFTP update

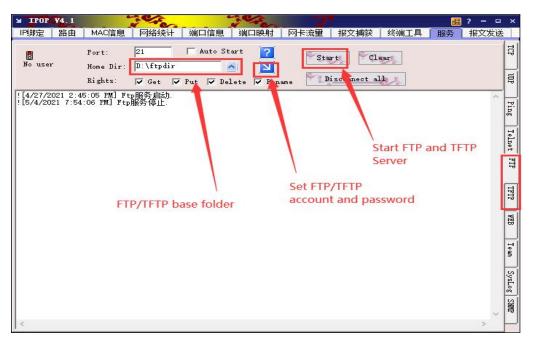
L Vswitch

Configure the server, directly run IPOP.exe to enable FTP/TFTP inside the service, you can also use 3CDaemon, TFTPD32, etc. as the server; run the configuration file directly in the root directory of the environment; the configuration file contains xx.boot and xx.cfg and other files. The configuration steps are shown in the following figure:

Setup Steps:

Web-side Settings (E) \rightarrow Auto Update \rightarrow Fill in the ftp/tftp address in Server Address e.g. ftp://192.168.17.xx/ to enable power-on startup;





automatically configure information update after reboot.

IP Phone			English (English) 🔹 🛛 😨 admin 🔹
Menu	Settings - Auto Update		Note
- Status(S) -	Auto Provision		
🙆 Account(A) 🗸 🗸	Auto Provision	Disabled	~
🙄 Network(N) 🗸	PNP activation	Disabled	▼
🛃 DssKey(D) 🗸	DHCP activation	Enabled	▼
El Features(U)	DHCP option value	66	
ເລີ້ອີ້ Settings(E) ▲	Server URL	ftp://192.168.17.59	
	User Name	admin The a	account password is filled in according to the
Preference(i)	Password	actua	al situation of the server
Time & Date(t)	Get profile timeout (seconds)		
Upgrade(u)	Power on and start	Disabled	~
Configuration([)	Repetition period	Disabled	~
Tones(q)	Interval (minutes)	1440	
Voice(;)	Week by week	Disabled	~
Dial Plan(k)	Update interval (0-12 weeks)	O	
TR069(\)	Inactive time period (0 ~ 120min)	D	
	Time	00 : 00 - 00	: 00
Call Display(^)	Weekly	□ Sun	
Auto Provision(3)		O Mon	
Ring(.)		O Wed	
Softkey Layout(,)		🗆 Thu	
Sound monitoring(~)		🗆 Fri	

Remote control

Used to control the configuration related to remote XML push.

- Configure remote control via web page
- 1. Log in to the web user interface.
- 2. Click Features (U) \rightarrow Remote Control (i).



- 3. Configure remote control.
 - a) XML push server address;
 - b) User name: Set the XML push server address user name;
 - c) Password: Set the XML push server address password;
 - d) SIP NOTIFICATION: Enable/disable phone call SIP NOTIFY message

processing XML push;

- e) Blocking XML push in calls;
- f) Allow control IP list: Multiple IPs are separated by ",", allowing

all IPs to fill in any;

g) CSTA control;

Push XML Server IP Address		
User Name		
Password		
SIP Notify	Disabled	~
Block XML in Calling	Disabled	~
Allow control IP list	any	
CSTA control	Disabled	~

4. Click the Submit button to save the changes.

XML can perform the following operations:

Displaying menu options, displaying text prompts, collecting user submissions, downloading address books from the server, prompting the phone for status information, notifying the phone to perform a series of commands, modifying phone configuration (e.g., registration, etc.), displaying text prompts in a fixed format on the interface, displaying graphic prompts on the interface, displaying menu items in graphic format, and customizing



function softkeys.

- Server pushes XML to phone

Remote control application, the server can push XML to the phone by POST, and the end user does not need any action. This time we don't do introduction of server building. The interested parties can learn a programming language. Here we take the PHP environment as an example to push the XML file to the terminal of the phone:

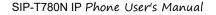
The file format is as follows, just access it after the configuration is complete.

php #</th
function pushtophone(\$server,\$phone,\$data){
\$xml = "xml=". \$data;
\$post = "POST / HTTP/1.1\r\n";
\$post . = "Host: \$phone\r\n" ;
\$post . = "Referer: \$server\r\n";
<pre>\$post . = "Connection: Keep-Alive\r\n" ;</pre>
<pre>\$post . = "Content-Type: text/xml\r\n";</pre>
<pre>\$post . = "Content-Length: ".strlen(\$xml)." \r\n\r\n".</pre>
\$fp = @fsockopen (\$phone, 80, \$errno, \$errstr, 5);
if(\$fp){
fputs(\$fp, \$post.\$xml); flush();
fclose(\$fp);
}
}
, \$xml = " <ipphonetextscreen beep='\"yes\"'>\n";</ipphonetextscreen>
\$xml . = " <title>Push test</title> \n";
\$xml . = " <text>This is a test for pushing text to a phone.</text> \n";
\$xml . = "\n" ;
pushtophone("192.168.17.xx", "192.168.17.xx", \$xml);
?>

SIP Configuration

SIP Session Timer

SIP session timers T1, T2 and T4 are SIP transaction layer timers defined





in RFC 3261.

- Configure SIP session timer via web page (only via web page)

- 1. Log in to the web user interface.
- 2. Click Settings (E) -> SIP Configuration (*).
- 3. Configure T1, T2 and T4.
- 4. Click the Submit button to save the changes.

IP Phone			English (English)	🕶 🛛 😨 admin 👻
Menu	Setting-The SIP configuration			Note
🚣 Status(S) 🗸	power save mode			
	SIP Session Timer T1 (0.5~10 SEC)	0.5		
Retwork(N)	SIP Session Timer T2 (2~40 SEC)	4		
④ DssKey(D) 🗸	SIP Session Timer T4 (2.5~60 SEC)	5		
음 Features(U) - ◄	Local SIP Port	5080		
క్టర్లి Settings(E)	The TLS SIP port	5061		
Preference(i)		Cancel(c) Confirm(s)		
Time & Date(t)				
Upgrade(u)				
Configuration([)				
Tones(q)				
Voice(;)				
Dial Plan(k)				
TR069(\)				
Call Display(*)				
Auto Provision(3)				
Ring(.)				
Softkey Layout(,)				
Sound monitoring(~)				

SIP Session Timer T1: Timer T1 is an estimate of the round-trip time (RTT) of a transaction between a SIP client and a SIP server. SIP Session Timer T2: Indicates the maximum retransmission time for any SIP request message. the retransmission multiplication of T1 will continue until the retransmission time reaches the value of T2. For example, a user registers a SIP account and sets the values of timer T1 and timer T2 respectively (timer T1:0.5, timer T2:4). the SIP registration request message will be retransmitted between the phone and the SIP server. The retransmission time reaches timer T2(4). The total registration request retry time will be less than 64 times T1(64 * 0.5 =



SIP Session Timer T4: Indicates how long it takes for the network to clear messages between the SIP client and server.

etting-The SIP configuratio	n	
The SIP configuration		
SIP Session Timer T1 (0.5~10 SEC)	0.5	
SIP Session Timer T2 (2~40 SEC)	4	
SIP Session Timer T4 (2.5~60 SEC)	5	

Native SIP ports vs. TLS SIP ports

If NAT is not enabled, the port number is displayed in the header of the SIP message for via and contact. If NAT is enabled, the phone will use the port and address for NAT in the header fields for via and contact, but will still use the configured source port.

- Configuring Local SIP Ports and TLS SIP Ports via Web Page

- 1. Log in to the web user interface.
- 2. Click Settings (E) -> SIP Configuration (*).
- 3. modify the local SIP port and TLS SIP port.
- 4. Click the Submit button to save the changes.

Local SIP Port	5060	
The TLS SIP port	5061	
	Constant of the second s	
	Cancel(c) Confirm(s	Ð



Action URL

The Action URL function is mainly used for the phone to report its own behavior to the computer, an action generates a URL on the phone side, and the actions on the phone side include incoming call, outgoing call, call transfer, etc. The web management interface lists all the supported actions, and each action corresponds to a user-defined URL. when an action is generated, such as an incoming call, the phone sends out an HTTP/HTTPS GET to the computer of the corresponding URL, so as to achieve the purpose of reporting its own actions. HTTP/HTTPS GET to the computer to report the action.

This function works in conjunction with the Action URI to enable mutual control between the phone and the computer.

URL format: http(s)://server address/help.xml?mac=\$mac

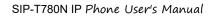
Enables actions to be reported to the server

Reportable actions	clarification	Supported Variables
Startup complete.	When phone startup is complete	\$mac \$ip \$model \$firmware (base)
registered	When SIP account registration is successful	\$mac \$ip \$model \$firmware \$local
unregistered	When the SIP account is not registered	ibid
Registration Failure	When SIP account registration fails	ibid
Drop the handle.	When the handle is hanging	\$mac \$ip \$model \$firmware (<i>base</i>)
Pick up the handle.	When the handle is off	ibid
When there is an incoming call	When the phone calls	\$mac \$ip \$model \$firmware \$active_url \$active_user \$active_host \$local \$remote \$display_local \$display_remote \$call_id \$callerID

Enables reporting of server actions and a list of variables supported by each action:



		\$calledNumber (call related)
send a call	When the phone dials	ibid
establish a session	When the call establishes a session	ibid
end a call	At the end of the call	\$mac \$ip \$model \$firmware
Turn on Do Not Disturb	When Do Not Disturb is turned on	ibid
Turn off do- not-disturb	When you turn off Do Not Disturb	ibid
Turn on unconditional forward	When unconditional call forwarding is turned on	ibid
Close unconditional forward	When unconditional call forwarding is turned off	ibid
Open up a busy forward	Turn on the busy call forward	ibid
Turn off busy forward	Turn off call forwarding when busy	ibid
Turn on no- answer forward	Turn on No Answer Forward	ibid
Turn off no- answer forward	Turn off no answer forward.	ibid
transfer a call	When a call transfer occurs	\$mac \$ip \$model \$firmware \$active_url \$active_user \$active_host \$local \$remote \$display_local \$display_remote \$call_id \$callerID \$calledNumber
Blind transfer	blind transfer	ibid
Advisory Transfers	Consultation transfer	ibid
Call hold	hold a call	ibid
Discontinue holding	When canceling call holding	ibid
mute	When mute is on	ibid
unmute	When mute is canceled	ibid





unanswered call	When there is a missed call	ibid
IP Change	When changing the IP address of the phone	ibid
Idle Entry Call	When the phone enters a call from the idle state	<pre>\$mac \$ip \$model \$firmware \$active_url \$active_user \$active_host \$local \$remote \$display_local \$display_remote \$call_id \$callerID \$calledNumber</pre>
Calls go into idle	When the phone goes from talking to idle	ibid
Rejection of calls	When rejecting an incoming call	ibid
Answer new calls	When answering a new call	ibid
transfer failure	When call forwarding fails	ibid
Transfer complete.	When call forwarding is complete	ibid
forward call	forward call	ibid
Auto provision	When the automatic update is complete	ibid
Turn on call waiting	When call waiting is turned on	\$mac \$ip \$model \$firmware
Turn off call waiting	When call waiting is turned off	ibid
Using a headset	When using a headset	ibid
hands-free	hands-free	ibid
Cancel Outbound	When canceling an outgoing call	ibid
remotely busy	Remote call on busy	ibid
Cancel Remote Call	When canceling a remote call	ibid
Peripheral Information	When updating peripheral information	ibid
VPN IP	When the VPN obtains an IP	ibid



Description of variables

Variables supported in the Action URL:

Reportable	clarification
actions	
\$mac	Phone MAC address.
\$ip	Phone IP address.
\$model	Phone Type.
\$firmware	The firmware version number of the phone.
<pre>\$active_url</pre>	The sip_uri of the current active account (only in effect for inbound, outbound, and calls).
<pre>\$active_user</pre>	User account replenishment for the sip_uri of the currently active account (only in effect for inbound, outbound, and calls).
<pre>\$active_host</pre>	The server portion of the current active account's sip_uri (only in effect for inbound, outbound, and calls).
\$local	The local sip_uri.
\$remote	The sip_uri of the opposite end.
\$display_local	The local display name.
\$display_remote	The name of the opposite end of the display.
\$call_id	Call ID.
\$callerID	The display name of the caller on an outgoing call.
\$calledNumber	The number that is called out on an outgoing call.

Web Configuration Instructions

- Configuring Action URLs on Web Pages

1. Log in to the web user interface.

2. Click Features (U) -> Action URL (6).

3. Enter the information to be reported to the server in the appropriate fields.

Example:

http(s)://server address/help.xml?mac=\$mac



IP Phone		English	(English)	• 🚺 💿 admin •
Menu	Features-Action URL			Note
Status(S) 🗸	Action URL			Action URL The action un parameters for administrator.
🖉 Account(A) 🛛 🗸	Setup Completed			The action on parameters for administrator.
Network(N) 🔹	Registered			
🛫 DssKey(D) 🛛 🗸	Unregistered			
B Features(U) ▲	Register Failed			
Forward&DND(4)	Off Hook			
General Information(5)	On Hook			
Intercom(n)	Incoming Call	http://192.168.17.48/help.xml?mac=Smac		
	Outgoing Call			
Audio(")	Established			
Keypad Lock(=)	Terminated			
Action URL	Open DND			
Transfer(?)	Close DND Always Forward On			
Pick up & Park(8)	Always Forward Off			
SMS(9)	Busy Forward On			
Remote control(!)	Busy Forward Off			
Power led(<)	No Answer Forward On			
Notification Popups(/)	No Answer Forward Off			
Hotline	Transfer Call			
<u></u>	Blind Transfer			
ई0ूडे Settings(E) 🗸 🗸				

4. Click the **Submit** button to save the changes.

Type of web access

You can configure the web access type to restrict web logins.

- Configuration of web access types through web pages

1. Log in to the web user interface.

- 2. Click Network Configuration (N) -> Advanced (v).
- 3. Configure the type of network access click web server.

a) Enable/disable http access;

b) Configure the http access port. When using the default 80 access without adding the port when others port need to be added after the IP to access;

c) Enable/disable https access;

d) Configure the https access port, default 443 access without adding the port, when other ports need to be added after the IP to access;

 Web Server

 HTTP
 Enabled

 HTTP Port (1~65535)
 80

 HTTPS
 Enabled

 HTTPS Port (1~65535)
 443

4. Click Submit to save the configuration.

Pages cannot be accessed via web pages after disabling http and https, you can enable access via phone menu->Settings->Advanced Settings->Network->Network Access Type.



Trusted Certificates

You can upload specific CA certificates to your phone.

- Configuration of trusted certificates via web page

- 1. Log in to the web user interface.
- 2. Click Security (F) -> Trusted Certificates (@).

3. Select the appropriate value from Allow only trusted certificates, User name confirmation, CA certificates.

4. Click **Submit to** confirm the operation.

A dialog box pops up, prompting for a reboot to take effect.

5. Click Confirm to restart the phone.

- Status(S) -	Index	Awarded to	lssuer	term of validity	Delete
≧ Account(A) 🗸	1	Awarded to	Issuer	term of validity	
Network(N) 🗸					
DssKey(D) 🗸	2				
g Features(U) →	3				
ູ້ ຊີ່ Settings(E) →	4				
j Directory(B)	5				
Security(F)	6				
Password(p)	7				
Trusted Certificates(@)	8				
Tusted Certificates (@)	9				
	10				
			Delete		
	Only trusted cer	rtificates are allowed	Disabled		
	User name con	firmation	Disabled	•	
	CA certificate		Default certificate	•	

- Uploading trusted certificates via the web

- 1. Log in to the web user interface.
- 2. Click Security (F) -> Trusted Certificates (@).
- 3. Click Browse in the Load Trusted Certificate File area to select a local certificate file
- (*.pem, *.crt, *.cer or *.der).
- 4. Click Import to upload the certificate.

Network(N)	•					<u> </u>
DssKey(D)		2				
		3				
E Features(U)		4				
දිද්දී Settings(E)		5				0
Directory(B)		6				
Security(F)		7				0
Password(p)		8				
Trusted Certifica	ates(@)					
		9				0
		10				
				Delete		
		Only trusted certificates are allowed		Disabled	•	
		User name confirmation		Disabled	~	
		CA certificate		Default certificate	~	
		Import trusted certificate	0		0	
		Load trusted certificate file	Select the file	Browser	Import	
			_			
			Cancel(c)	Confirm		