



# BBT ANTENNAS INC

## High efficiency RFID Reader



### Features:

- ★ The new-generation Impinj E710 reader chip
- ★ 30dBm RF output
- ★ Built-in 9dBi antenna
- ★ IP67 waterproof, UV protection rating, suitable for various harsh environments
- ★ Lightweight, high gain, low power consumption, high heat dissipation level, stable read and write performance
- ★ Easily applicable in RFID scenarios such as access control channel, gate control, logistics management, vehicle management, etc.

| Part Number                 | BBT-270E710                                                                                        |
|-----------------------------|----------------------------------------------------------------------------------------------------|
| Frequency                   | North America: 902-928MHz FCC (NA,SA)<br>Europe: 865-868MHz (ETSI)<br>Full band: 860-960MHz (OPEN) |
| Polarization Type           | Circular                                                                                           |
| Gain                        | 9dBi                                                                                               |
| Chip                        | Impinj E710                                                                                        |
| Air Protocol                | EPC global UHF Class 1Gen2 (ISO 18000-6C)                                                          |
| RSSI, Temperature Detection | Support                                                                                            |
| Sensitivity                 | -87dBm@20%BER                                                                                      |
| Max Input Power             | 5dBm~30dBm( $\pm 1$ dB) Configurable MAX,30dBm                                                     |
| Dimensions H*W*D (mm)       | 270*270*82(mm)                                                                                     |

### RF Performance

|                          |                       |
|--------------------------|-----------------------|
| Peak Tag Inventory Speed | >1000tags/s           |
| Read Range               | 0-20m(9662 Blank Tag) |
| Tag Buffer               | 1000Tags@96 bit EPC   |

### Communication / Indicator Interfaces

|               |                                                                                                  |
|---------------|--------------------------------------------------------------------------------------------------|
| Communication | Standard Configuration: 10/100Base-T RJ-45, RS232<br>Optional configuration: RS485, Wiegand, USB |
| GPIO          | 1x GPIO Input, 1x GPIO Output                                                                    |
| Buzzer        | Build-in                                                                                         |

### Power Supply Specifications

|                           |             |
|---------------------------|-------------|
| Voltage                   | DC-12V, 2A  |
| Max Power Consumption     | 6.75W(Peak) |
| Standby Power Consumption | 1.76W       |

### Environmental Parameters

|                       |                              |
|-----------------------|------------------------------|
| Operating Temperature | -25°C~+65°C                  |
| Storage Temperature   | -40°C~+85°C                  |
| Humidity              | 5~95% Non-Condensing (+25°C) |

### API

|             |                   |
|-------------|-------------------|
| Support API | C, C#, .NET, Java |
|-------------|-------------------|



BBT Website

|                             |               |     |     |     |       |
|-----------------------------|---------------|-----|-----|-----|-------|
| ①rs232(default)             | 4             | 3   | 2   | 1   |       |
| Definition of line sequence | GND           | TX  | RX  | NC  |       |
| ②GPIO                       | 5             | 4   | 3   | 2   | 1     |
| Definition of line sequence | COM1          | NO1 | IN1 | GND | GPIOV |
| ③Power Source               | DC9-24V       |     |     |     |       |
| ④Net Gape                   | RJ45 (4chips) |     |     |     |       |



# BBT ANTENNAS INC

## UHF RFID Reader



### Features:

- ★ The new-generation Impinj E310 reader chip
- ★ 30dBm RF output
- ★ Built-in 8dBi antenna
- ★ IP67 waterproof, UV protection rating, suitable for various harsh environments
- ★ Exquisite appearance(LED)、high gain, low power consumption, high heat dissipation level, stable read and write performance
- ★ Easily applicable in RFID scenarios such as access control channel, gate control, logistics management, vehicle management, etc.



### Features:

- ★ Adopt the new generation Impinj E310 reader chip.
- ★ 30dBm RF output.
- ★ Built-in 5dBi antenna.
- ★ IP67 waterproof, UV protection grade, suitable for all kinds of harsh environments.
- ★ Small in size, high in gain, low in power consumption, fast in read and write speed, and stable in performance.(Industrial grade
- ★ It can be conveniently applied in RFID scenarios such as passageways or access control, automatic sorting lines, and vehicle management.

| Part Number              | BBT-200E310                                                                                        | BBT-145E310           |
|--------------------------|----------------------------------------------------------------------------------------------------|-----------------------|
| Frequency                | North America: 902-928MHz FCC (NA,SA)<br>Europe: 865-868MHz (ETSI)<br>Full band: 860-960MHz (OPEN) |                       |
| Sensitivity              | -73dBm@10%BER                                                                                      |                       |
| Dimensions H*W*D (mm)    | 200*200*56(mm)                                                                                     | 145*145*47.5(mm)      |
| Peak Tag Inventory Speed | >350tags/s                                                                                         |                       |
| Read Range               | 0-20m(9662 Blank Tag)                                                                              | 0-12m(9662 Blank Tag) |
| Tag Buffer               | 1000Tags@96 bit EPC                                                                                |                       |