

D-100/101

UHF RFID Desktop Reader



1. Advantages

- > M-500 micro UHF RFID module inside
- > USB charge or independent 9V power supply supported
- > D-100 read distance: 80-300cm (tested with Impinj E41b inlay)
- > D-101 read distance: 10-50cm (tested with Impinj E41b inlay)
- > USB 2.0/ RS-232/ Wiegand 26/ Wiegand 34 supported

2. Electrical Parameters

Electrical Parameters	
Input Voltage	DC 3.5V – 5 V / 9V.
Standby Mode Current	< 80mA.
Operating Current	150mA @ 3.5V (26 dBm Output,25°C). 110mA @ 3.5V (18 dBm Output,25°C).
Operating Temperature	- 20 °C - + 70 °C
Storage Temperature	- 20 °C - + 85 °C
Operating Humidity	< 95% (+ 25 °C)
Air Interface Protocol	EPC global UHF Class 1 Gen 2 / ISO 18000-6C
Spectrum Range	902Mhz – 928Mhz, 865MHz – 868MHz (Optional)
Supported Regions	US, Canada and other regions following U.S. FCC Europe and other regions following ETSI EN 302 208 China,Korea,Malaysia,
Output Power	18-26 dBm
Output Power Precision	+/- 1dB
Output Power Flatness	+/- 0.2dB
Receive Sensitivity	< -70dBm
Peak Inventory Speed	> 50 pcs/s
Tag Buffer Size	200 pcs @ 96 bit EPC
Tag RSSI	Supported
Antenna	D-100 2dbi ceramic antenna Read range :80cm-200cm (Tested with Impinj E41b tag) D-101 0dbi ceramic antenna Read range :10cm-50cm (Tested with Impinj E41b tag)
Host Communication	USB 2.0, RS-232, Wiegand 26, Wiegand 34
Baud Rate	115200 bps (default and recommended), 38400 bps
Cooling	Air cooling

3. PIN Assignments



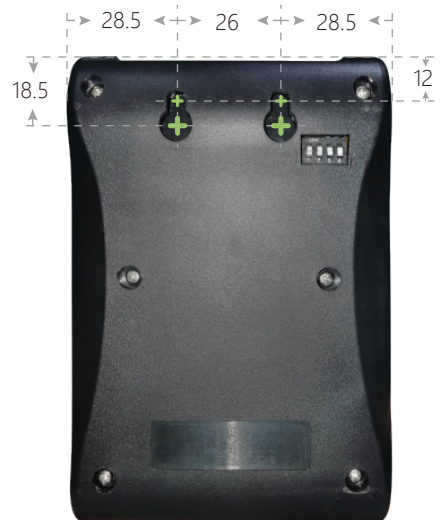
PIN	Interface	Description
1	+9V	External 9V power supply. (Note: Don't connect an external power supply and USB power supply both.)
2	GND	Common ground with +9V external power.
3	RS-232 TXD	RS-232 data output.
4	RS-232 RXD	RS-232 data input.
5	GND	Common ground with RS-232 interface.
6	GPIO3	GPIO3 or Wiegand Data 0.
7	GPIO4	GPIO4 or Wiegand Data 1.
8	GND	Common ground with Wiegand data.

4. Structure Dimensions (unit : mm)

Any discrepancy, please defer to the real product instead.



4-1: D100 External Dimensions



4-2: D100 Back Lock-hole Specification