D-10X UHF RFID Desktop Reader Specification V1.1

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1. Advantages

- PHY Chips PR9200 inside with outstanding performance and cost-effective.
- Chip: FT232 USB to UART, providing the most stable USB communication in the industry.
- All components with high-end materials and low temperature drift coefficient ensure stable performance in harsh environment.
- Two models: D-100/101.
- Read distance: 80cm-2m (D-100), 10cm-50cm (D-101).

  Note: Tested with Impinj E41b inlay
- Host communication: USB 2.0/ RS-232/ Wiegand 26/ Wiegand 34
- Read rate: > 50PCS per second.
- Super low power consumption; no additional cooling devices required under indoor use.
- Power supply: USB or independent power supply.
- Full compatible with different communication interfaces of HUAYUAN INDY R2000 series products.

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2. Product View

3. Electrical Characteristics

Input Voltage	DC 3.5V – 5 V.	
Standby Current	<80mA.	
Working Current	180mA @ 3.5V (26 dBm Output,25°C). 110mA @ 3.5V (18 dBm Output,25°C).	
Starting Time	<100mS.	
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 Mainland China Japan Korea Malaysia Taiwan	
Output Power	10dBm, 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 Circular Polarization Antenna. Read range：80cm-200cm (Tested with Impinj E41b tag)
	D-101	0dbi Circular Polarization 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	

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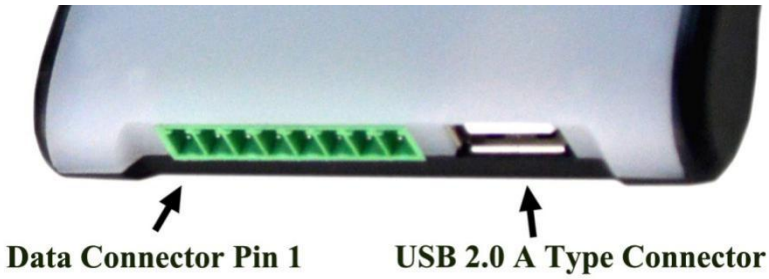
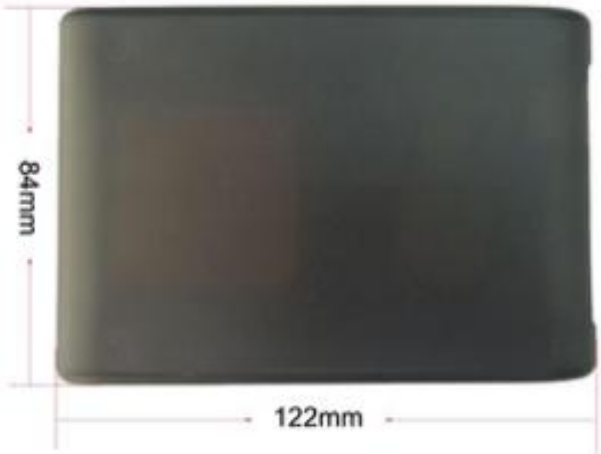
4. PIN Assignments

3-1: 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.

5. Structure Dimensions



◆Any discrepancy, please defer to the real product instead.