YR9010 UHF RFID desktop reader specification

Table one: product features list

RFID chips using **PR9200**	◆Using the UHF RFID chips with the highest cost performance to read in the industry.
Use the highest performance of components	◆ Used a 50 mm x 50 mm double feed point ceramic antenna, reader tags without blind spots. ◆ Used FT232 USB serial interface chip, provide the industry's most stable USB communication. ◆ All used the highest levels of components, extremely low drift coefficient, can work in harsh environments.
Excellent reading labels performance	◆ Wide range of reading labels distance, can adjustable to from 10 cm to 3 m, so as adapt to different applications. ◆ Highest write label success rate in the industry. ◆ Multiple tags identification ability：>50 tags。 ◆ Label recognition speed：>50 tags/Seconds.
Rich interface	◆ Supported USB 2.0 Interface. ◆ Supported RS-232 Interface. ◆ Supported Wiegand 26 Interface. ◆ Supported Wiegand 34 Interface. ◆ Supported USB power supply.

	◆ Supported independent power supply.
Low power consumption	◆ Not hot long-term continuous working at full capacity at room temperature. ◆ Sustained current <200mA @ 3.5V (26 dBm Output)。 ◆ Sustained current <110mA @ 3.5V (18 dBm Output)。
Good consistency	◆Masterpiece of design consistency . ◆Each target through strict calibration .Ensure consistent.
Concise and efficient software interface	◆With our INDY R2000 series communication interface compatibility, easy used interchangeably.
Supported two installation methods at the same time	◆ Can be used as a desktop reader. ◆Can be wall-mounted installation, used as entrance guard machine.
Optional cover color	◆Optional color: light gray, orange, yellow, black.

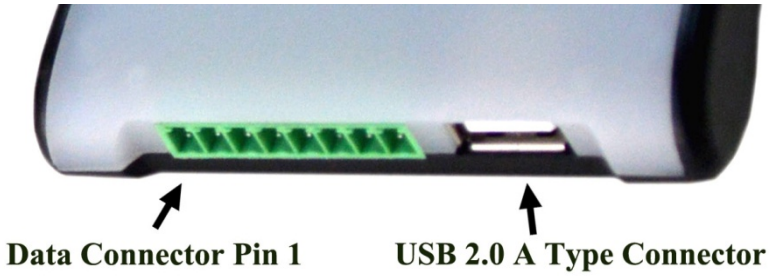
Table two: electrical parameters

Working voltage	DC 3.5V – 5 V。
Standby current	<80mA。
operating current	180mA @ 3.5V (26 dBm Output，25°C)。 110mA @ 3.5V (18 dBm Output，25°C)。
Start time	<100mS。
Operating temperature	- 20 °C - + 70 °C

Storage temperature	- 20 °C - + 85 °C
Operating humidity	< 95% (+ 25 °C)
Air interface protocol	EPCglobal UHF Class 1 Gen 2 / ISO 18000-6C
Operating frequency	902Mhz – 928Mhz 865MHz – 868MHz(Optional)
Supported region	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 range	0-26 dBm
Output power precision	+/- 1dB
Output power flatness	+/- 0.2dB
Receiving sensitivity	< -70dBm
Peak speed of inventory tags	>50 PC/S
Label cache region	200 PCS Labels @ 96 bit EPC
Label RSSI	Supported
Communication interface	USB 2.0 RS-232

	Wiegand 26 Wiegand 34
Communication baud rate	115200 bps（default and recommended） 38400bps

Table three: interface definition list



PIN	Definition	Explain
1	+ 9V	External 9 V power supply.（Note: do not connect the external power supply and USB at the same time.）
2	GND	With + 9 v external power supply common grounding.
3	RS-232 TXD	RS-232 data output.
4	RS-232 RXD	RS-232 data input.。
5	GND	With RS-232 connector common grounding.
6	GPIO3	GPIO3 or WiegandData 0。

7	GPIO4	GPIO4 or WiegandData 1。
8	GND	with Wiegand Data common grounding.