



INTERFACE DEFINITION LIST

PIN	INTERFACE	DESCRIPTION
1	+ 9V	9V Power supply
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	GIPO3	GPIO3 or Wiegand Data 0
7	GIPO4	GPIO4 or Wiegand Data 1
8	GND	Common ground with Wiegand data 0

SPECIFICATIONS	TM07 UHF RFID Module
Phychip PR9200 Inside	<ul style="list-style-type: none"> • PR9200 has an outstanding performance with a low cost.
Excellent Performance of Reading Tags	<ul style="list-style-type: none"> • Identifying Tags sensitively and stably. • Stable read distance is 2-3m with Microstrip ceramics antenna. • 8dBi Circular Polarization Planar Antenna: >10m. • 12dBi Linear polarization antenna: >15m. • Performance of multi-tags identification: >50pcs. • Read rate: >50pcs/s.
Completely Solve the Problem of Heat	<ul style="list-style-type: none"> • Don't need any cooling devices. • No heat during long-term continuous full load working at room temperature. • Continuous Current <200mA @26 dBm Output (3.5V Power Supply). • Peak pulse current <260mA @26 dBm Output (3.5V Power Supply).
Excellent Stability	<ul style="list-style-type: none"> • 24 hours X 365 days continuous working without Crash. • Less influence by shell, electromagnetic environment, etc. • Wide temperature design. Temperature Coefficient is very low.
Excellent Consistency	<ul style="list-style-type: none"> • A model of design consistency. • Every indicators are calibrated rigorously, ensure consistency.
Simple and Efficient Interface	<ul style="list-style-type: none"> • Communication interface is compatible with our INDY R2000 series. • Peripheral circuits are very simple, single power, don't need to connect Ta. • capacitor externally (See figure 1: Circuit Design Reference).
Supports Two Installation Methods	<ul style="list-style-type: none"> • Supports RF connector + FPC connector installation method. • Supports Surface Mount Solder.
Input Voltage	DC 3.5V – 5 V
Standby Mode Current	<80mA (EN High Level)
Sleep Current	<100uA (EN Low Level)
Operating Current	180mA @ 3.5V (26 dBm Output, 25°C) 110mA @ 3.5V (18 dBm Output, 25°C)
Starting Time	<80mS
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
Spectrum Range	UHF 866-868 MHz (EU)
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	0-26 dBm
Output Power Precision	+/- 1dB
Output Power Flatness	+/- 0.2dB
RF Connector	I-PEX
Receive Sensitivity	< -70dBm
Peak Inventory Speed	> 50 pcs/s
Tag Buffer Size	200 pcs @ 96 bit EPC
Tag RSSI	Supported
Host Communication	TTL Uart port Wiegand 26 Wiegand 34
GPIO	2 input 2 output (3.3V TTL Level)
Baud Rate	115200 bps (Default and Recommended) 38400bps
Cooling	Air cooling (Don't need external Heatsink).

