

FOUR PORT RFID READER F5860



F5860-H is a **four port** UHF RFID fixed reader, which embeds the M2240 module. Its communication interfaces can be USB, RS485, RS232, and 100M Ethernet, etc.. It has four TNC antennae interfaces. Aluminum alloy of the whole body makes this reader more rugged and durable as well as the excellent heat dissipation capability, antijamming capability and lightning-proof ability.

F5860-H is suitable for RFID intensive and more challenging environment and required a higher reading/writing performance, such as warehousing, logistics, production line management, etc..

Product advantages

- Employed IMPINJ R2000 RF Chips, up to -82dbm receiving sensitivity and the highest performance in this field make this module more suitable for harsh application environment.
- Remarkable performance, can achieve a reading distance over 8m for single tag reading with 8dbi RF antenna.
- Remarkable performance in intensive tags reading can attain a tags identification rate of 400tags/s.
- Provide the most comprehensive functions SDK and ports, easy to integrate RFID software.
- Adopted integrating RF chip, module performance is more stable, and more suitable for harsh application environment.
- The use of carrier wave cancellation technology makes the tags reading more accurate and reading scope wider.
- Provide four TNC antennae interfaces, users can achieve superior reading performance with less equipment deployment.
- Enhanced noise suppression function for reliable data capturing.
- High precision return signal strength (RSSI).
- Excellent performance of anti-interference and lightning-proof design.
- Aesthetic appearance, easy to install.

Product Technical Parameters

Name	Parameters	Remark
Reader Chip	R2000	
Tag Protocol	EPCglobal UHF Class 1 Gen 2/ISO 18000-6C	
Working Frequency	840 ~ 960MHz	
Supporting Working Area	China, Europe, the United States, South Korea, Japan, Taiwan.....	
Operating Voltage	12V	DC power supply
Maximum operating current	1A	Test of transmit power in 30dBm state
Standby current	≤80mA	
RF port maximum output power	1W(30dBm)	
Working Temperature	-25°C ~ +65°C	
Working Humidity	≤95% (+25°C)	
Storage Temperature	-40°C ~ +80°C	
Receiving	-82dBm	
Antenna interface impedance	50Ω	
Serial communication parameters	Baud rate adjustable (default 115200bps) ,parity bit: 0 , data bit: 8 , stop bit: 1	
Power output settings	5 ~ 30dBm adjustable /Adjustable minimum interval of 1dBm (default 30dBm)	
DRM mode	support	
RSSI	support	
High temperature automatic protection function	support	
Power supply enable	support	
GPIO interface	3-Road GPIO can only input can not be input, GPIO port default is low, the output high level of 5V,GPIO 3 IS USED TO CONTROL LED state indicator(green) and buzzer	
buzzer	support	
LED lights	Power indicator: Red Status indicator: Green	
Communication Interface	USB, RS232, RS485, Ethernet	Only one of the communication interfaces on the F5860-H can be used alone. Do not communicate with each other at the same time.
Antenna interface	Four TNC	The F5860-H working antenna defaults to antenna 1.Antenna parameters can be configured: working antenna, working time, interval time.
dimension	26.5*25.0*4.5CM(including bracket)	
Accessories	12V/3A Power Adapter: 1 Serial line: 1 root	

10 PIN Green Terminal Interface Definition

Pin NO.	Name	Description	Remark
1	485-B	RS485 B	
2	485-A	RS485 A	
3	EN_OUT	Equipment enable control interface. When the high level input, the device will be in a state of sleep. The high level voltage is 5V.	
4	GPIO1	GPIO port output, can be programmed to control the level of output. The output high level is 5V, the low level is 0V. The maximum output current is 100mA. (The default output level is low level 0V)	
5	GPIO2	the same as above	
6	GPIO3	the same as above (note: Equipment has occupied this interface for the green LED lights and buzzer control)	
7	NC	Reserved interface, no function	
8	NC	Reserved interface, no function	
9	WIFI_RESET	Device WIFI configuration parameter reset pin, this pin and the GND pin short to 10 seconds to restore the factory settings WIFI.	
10	GND	Signal reference.	