UHF RFID Reader Hub

Quick Details

LDR-RF03 UHF RFID Reader Hub is made with built-in Impinj R2000 module. It's 4pcs TNC interfaces can connect 4pcs antenna, and read long distance up to 10meters. With stable performance and strong functions, it is widely applied in many RFID applications, like asset tracking, warehouse inventory and parking solution.

Description

RFID Parameter	
Model No.	LDR-RF03
Type	Passive UHF RFID Reader
Protocol	ISO/IEC 18000-6C and 6B, EPC Class1 Gen2
Frequency	Worldwide 840-960Mhz, US 902-928mhz, EU 865-868Mhz
Module	Impinj R2000
Transmit power	0 ~ 30dBm adjustable
Working Mode	Read&Write supported
Read&Write Range	Read 1-15m adjustable, antenna, tag and environment dependent
Read Prompt	Led&Buzzer
Anti-collision	Support multiple tags reading
External antenna interface	4 TNC interfaces
RSSI	Supported
Inventory Mode	Real-time Inventory work mode supported
Inventory Speed	Up to 800pcs/s
Inventory tag type	EPC or TID supported
Tag buffer	Max. 496bits EPC
Software Kits	Provide free Demo for testing and SDK for development
Software Compatibility	Win XP, Win7, Win8 or Win10

Physical Parameter	
Size	310x210x41mm / 12.2×8.27×1.61nch(L×W×T)
Material	Aluminum
Mounting	Inside metal box for protection
Power supply	Single +9V~12V DC
Operating temperature	-10℃ ~ +60℃
Operating humidity	20% ~ 90%RH
Accessories	1×RS232 Cable, 1×Power cable
Package	1unit/carton
Customized Service	WIFI port

Application

✓ Intelligent traffic management, such as custom clearance, parking lot;

✓ Logistics such as container management, pallet management

✓ Ticketing, school attendance, asset tracking;

✓ Access control, automatic weighing;

✓ Animal tracking;

Interface

1．Power (DC JACK)

No.	Symbol	Type
2	PWR	+9VDC
4	GND	Ground
1,3	NC	Reserved

2．WIFI Antenna (SMA Female), Need to customize with extra cost

3．USB Slave

4．USB Reserved

5．TCPIP network/RJ45/Ethernet Socket

6．Serial communication port RS232/UART (DB9 Female)

No.	Symbol	Type
1	nc	Reserved
2	TXD	General Output2
3	RXD	General Output3
4	nc	Reserved
5	GND	Ground
6	nc	Reserved
7	nc	Reserved
8	nc	Reserved
9	nc	Reserved

7. GPIO (DB15 Female)

No.	Symbol	Type
1	Output1	General Output1 (internally used as the buzzer driver with low level effective)
2	Output2	General Output2
3	Output3	General Output3
4	Output4	General Output4
5	Input1	General Intput1 with Internal 47k resistor pulled-down to ground
6	Input2	General Intput1 with Internal 47k resistor pulled-down to ground
7	Input3	General Intput1 with Internal 47k resistor pulled-down to ground
8	Input4	General Intput1 with Internal 47k resistor pulled-down to ground
9	TGIN	Trigger input with internal 10k resistor pulled-up to +5V
10	R+	R+ in RS485
11	R-	R- in RS485
12	GND	Ground
13	NC	Normal-Close terminal of internal relay
14	NO	Normal-Open terminal of internal relay
15	CM	Common terminal of internal relay

8．TNC antenna port ANT1~ANT4