

Miniature UHF RFID Reader



Features:

- Comes with UHF RFID Reader Module based on Impinj’s Reader Chip.
- Metal shell, good heat dissipation effect.
- Provide Ethernet, RS-232j and GPIO interfaces.
- Mini and exquisite appearance, support Power over Ethernet (PoE), Easily for installation.
- Embedded high speed processor, able to be self-controlled or connected to an External PC.
- Widely applied to Intelligent Assembly Line, Distributing Center and simple RFID Detection

General Specifications:

Reader Chip	Impinj Indy™R500 or R2000
Interface	Option 1 : RJ45 & 4-Pin GPIO
	Option 2 : Bluetooth 4.0
Number of Antenna	Built-in Antenna (Option) External Single or 4-Antenna (SMA-Female)
Protocol	ISO18000-6C/EPC GlobalC1G2
Frequency Range	ETSI 865 ~ 867MHz
	FCC 902 ~ 928MHz
	CCC 920 ~ 925MHz, 840 ~ 845MHz
	NCC 924 ~ 927MHz
Power Output	0dBm ~ +30dBm
Receiving Sensitivity	-68dBm(R500), -83dBm(R2000)
LED Indicator	Indicator for Power, Linking & Reading
Modulation	BSD_ASK/M0/40KHz ; PR_ASK/M2/250KHz ; PR_ASK/M2/300KHz ; BSD_ASK/M0/400KHz
Power Input	Via Power Adapter
Input Voltage	12VDC (via Power Adapter)
Operating Temperature	-20°C ~ +50°C
Storage Temperature	-40°C ~ +70°C
Operating Humidity	10% ~ 90%
SDK	Microsoft .NET APIs, C/C++ API, Java
Dimension	4.68" (L) x 3.66" (W) x 0.9" (H)
	119mm (L) x 93mm (W) x 23mm (H)

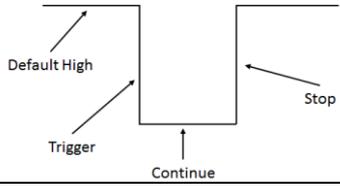
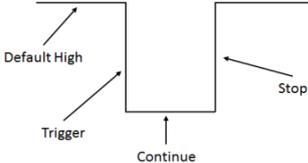
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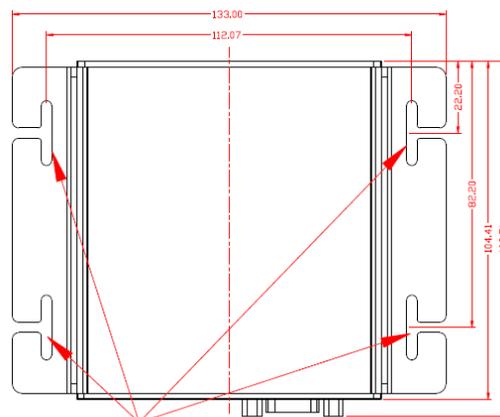
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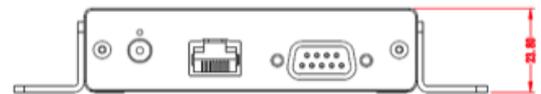
PIN Assignment:

PIN NUMBER	PIN ASSIGNMENT	DESCRIPTION
Pin 1	GPO 0	Driving Capacity: 20mA (max.) Logic Low: 0 to 0.8V Logic High: 2.4V to 3.3V
Pin 4	GPO 1	Driving Capacity: 20mA (max.) Logic Low: 0 to 0.8V Logic High: 2.4V to 3.3V
Pin 5	GND	Ground
Pin 6	GPI 0 (can be defined as GPO 2)	GPI, Low-edge Trigger, Low Active Logic Low: 0 to 0.8V Logic High: 2.4V to 3.3V 
Pin 7	GPI 1 (can be defined as GPO 3)	GPI, Low-edge Trigger Logic Low: 0 to 0.8V Logic High: 2.4V to 3.3V 
Pin 8	NC	NC
Pin 9	+5V	Output 5V/500mA

Dimension (mm)



Fixing screws
M3.0*8mm



Applications:

- Auto parts factory: installed on the conveyor belt of the assembly line to monitor the production process
- Checkout counter management: use small fixed reader + flat antenna embedded in the settlement desk

