

S-303

8-Port UHF RFID Reader



Compact and rugged
Inherit classics

1. Advantages

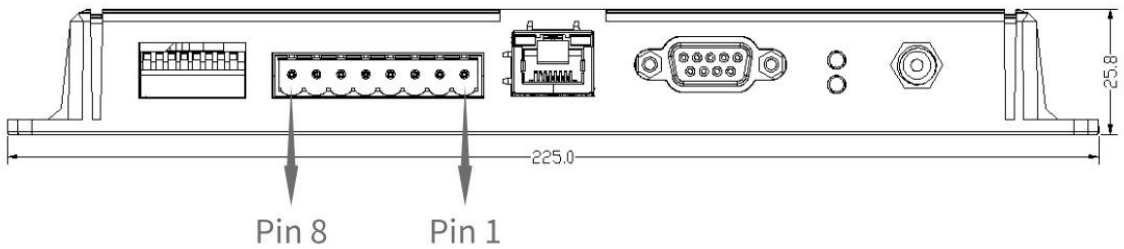
- Support upgrading firmware online.
- The appearance is compact, delicate, and highly integrated.
- One step molding materials bring rugged body and excellent heat dissipation.
- Ultra-high sensitivity, up to -85 dBm.

2. Electrical Parameters

Electrical Parameters Table	
Dimensions	200(L)*100(W)*25.8(H)mm
Weight	0.5kg
Body Material	PC + Aluminum Alloy
Input Voltage	DC12V~18V
Standby Mode Current	<80mA
Sleep Mode Current	<100uA
Operating Temperature	-20°C~+85°C
Storage Temperature	-40°C~+85°C
Work Humidity	5%RH~95%RH (non-condensing)
Protocol	EPC global UHF Class1 Gen2/ISO18000-6C
Spectrum Range	902MHz~928MHz, 865MHz~868MHz Optional ✓
Supported Regions	US, Canada and other regions following U.S. FCC Europe and other regions following ETSI EN 302208 China, Korea, Malaysia
RF Output Power	0– 33 dBm
RF Connector	SMA
Output Power Precision	+/-1dB
Output Power Flatness	+/-0.2dB
Sensitivity	<-85 dBm
Peak Inventory Speed	>700 tags/s
Tag RSSI	Supported
Antenna Detector	Supported
Ambient Temp Monitor	Supported
Host Communication	RS-232/TCP/IP
GPIO	Two optical coupling inputs and two optical coupling outputs
Baud Rate	115200bps (default and recommended) /38400bps
Heat Dissipation	Air cooling

3. PIN Assignments

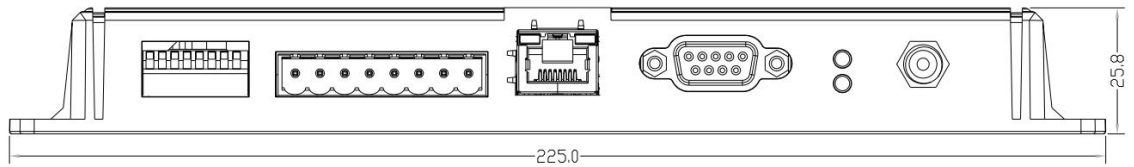
PIN Assignments



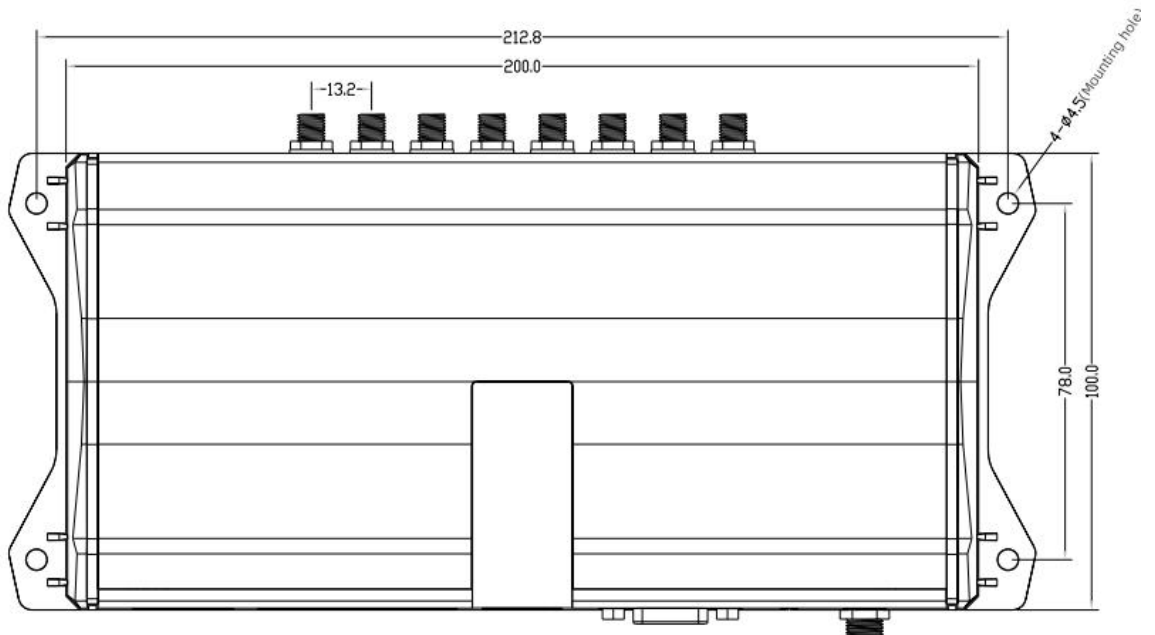
PIN ID	Function	Circuit	Instructions
PIN 1	GPIO 1 In +		<ul style="list-style-type: none"> • Voltage between PIN1, 2 (PIN3, 4) $\leq 12V$ • Having polarity • LED equivalent resistance 470Ω • Response time $\leq 150\mu s$
PIN 2	GPIO 1 In -		
PIN 3	GPIO 2 In +		
PIN 4	GPIO 2 In -		
PIN 5	GPIO 4 Out		<ul style="list-style-type: none"> • Voltage between PIN5, 6 (PIN7, 8) $\leq 12V$ • No-polarity • Conduction resistance 110Ω • Response time $\leq 6ms$
PIN 6	GPIO 4 Out		
PIN 7	GPIO 3 Out		
PIN 8	GPIO 3 Out		

4. Dimensions(mm)

Note: If there is inconsistency between the image and the actual product, please refer to real product as standard.



S-303 Rear view



S-303 Top view