



RFO AIO2020

UHF RFID Reader with integrated Antenna

DATA SHEET

Product Description

Main Features

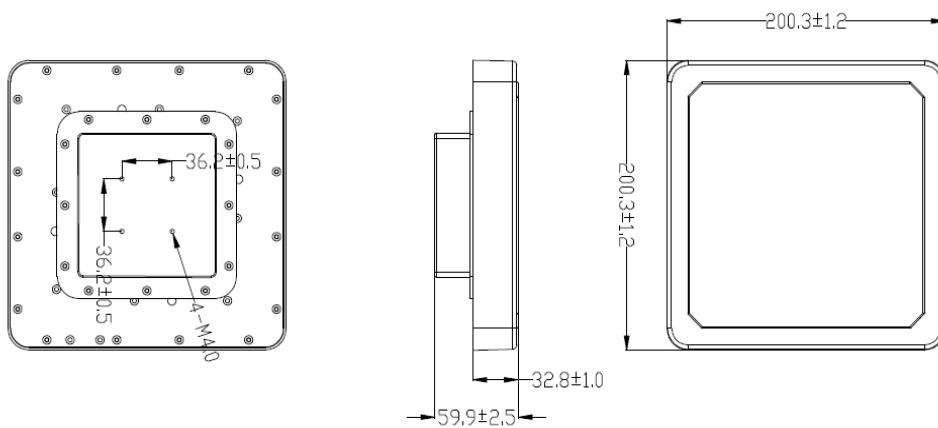
The RFO AIO2020 adopts Impinj R2000 module, Max. power output is 30dbm.

Built-in narrow band 6dbi circular polarization antenna, reading distance up to 6 meters.

Highlights:

- Reading speed is 400tags/s
- Standard interfaces as RJ45, RS232, GPIO_IN*1, GPIO_OUT*2, meet different client's requirements.
- Standard power supply is 12V DC. Optional power supply is POE and 12VDC.
- Built-in hardware watchdog and interface protection circuit, suitable for complex industrial application environment.

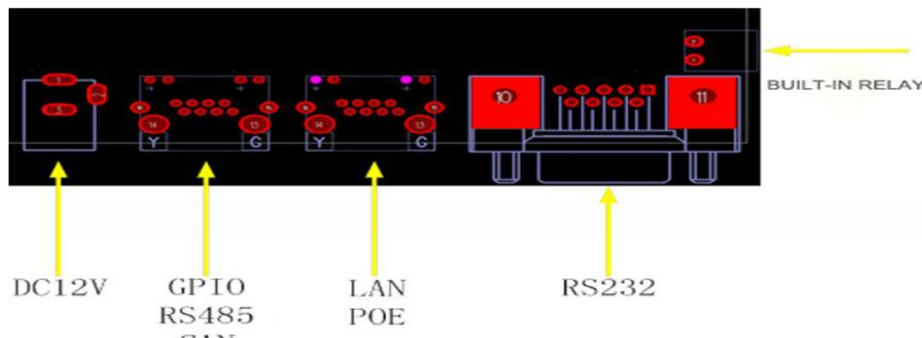
Product dimension



Article no:	Standard	RFO AIO2020
Typical Applications	<ul style="list-style-type: none"> •Health Care •Asset management •Food •Transportation 	<ul style="list-style-type: none"> •Service Maintenance & Diagnostics •Automotive •Retail & POS •Home Automation

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Technical Specifications		RFO AIO2020
Main Specifications		
Operating voltage	12V	
	48V (802.3af POE)	
Max. power consumption	10W	
Standby current	≤100 mA	
Frequency range	840-960 MHz (Default:902-928MHz, customized optional)	
Default operating frequency	Frequency hopping (Frequency interval 250KHz)	
Channel band width	250 KHz	
Frequency hopping speed	≤2 s	
Maximum power output	30 dBm (EIRP 4W)	
Step interval	1 dB (5~30dBm adjustable by software)	
Air protocol	EPC C1G2 / ISO18000-6C	
Radio-frequency power rising time	≤500 μs	
Radio-frequency power dropping time	≤500 μs	
Adjacent channel power leaking ratio	≤-40 dB (±1CH)	
	≤-60 dB (±2CH)	
Frequency stabilizing ratio	±10 ppm (-25°C~+40°C)	
	±20 ppm (-40°C~+60°C)	
Multi-Label	>400/s	
User Environment		
Working temperature	-20~+60°C	
Storage temperature	-40~+85°C	
Relative humidity	5%~95% RH (Non-Condensing)	
External Interface		
 <p>The diagram illustrates the external interface of the RFO AIO2020 module. It features several ports: a DC12V power input, a multi-pin connector for GPIO, RS485, and CAN, a LAN/POE port, and an RS232 serial port. A built-in relay is also shown, connected to a power source. Yellow arrows point from the labels to their respective ports on the module.</p>		

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