



AP-1010F Ceiling Mounted RFID Reader and Antenna

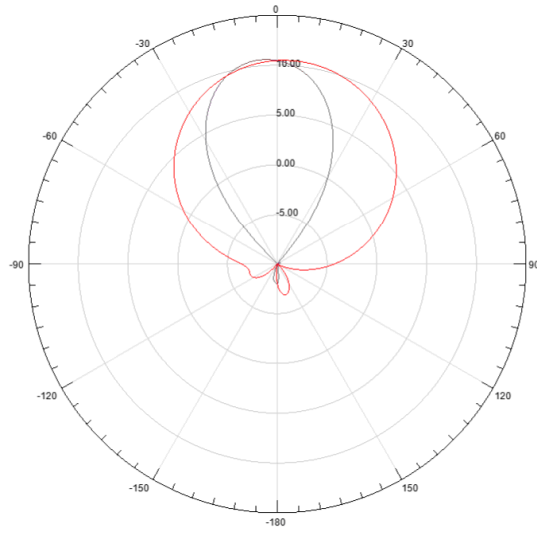
Ideal for intelligent batch identification during goods transfer in warehouses or stores. Integrated with light and sound alarm to detect unauthorized RFID tags. Support ceiling mounted, suspended ceiling or pole mounted installation with simple setup and space saving design. Widely used in various applications such as warehouse inventory management, burglar system for retail stores, library borrowing management and asset identification.

Features

- Impinj E710 RF chip module: High volume tag reading (900 tags/sec). Supports intensive read/write
- Long range detection (customizable 0.5 - 12m)
- Flexible installation: Ceiling or suspended mounting with WiFi, RJ45 (POE) connectivity
- Dual-mode antenna: Circular and linear polarization for optimal coverage
- Smart triggering: Optional Infrared / LiDAR / mmWave radar integration
- Real-time alarm: Audible & visual alert for unauthorized operations
- Adjustable power (5 - 33dBm) with auto / command / sensor trigger modes
- Data reporting: Cached / timed / instant transmission options
- Tag data filtering

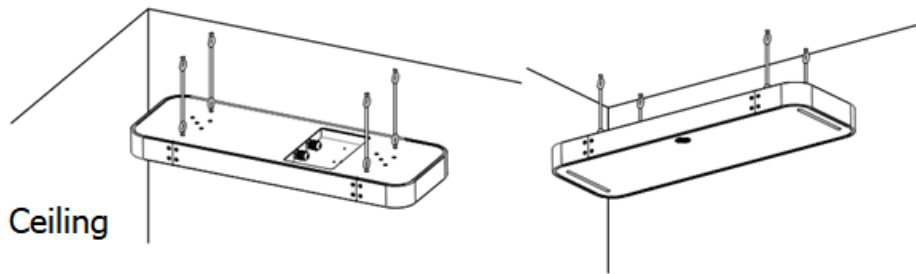


Radiation Pattern 1

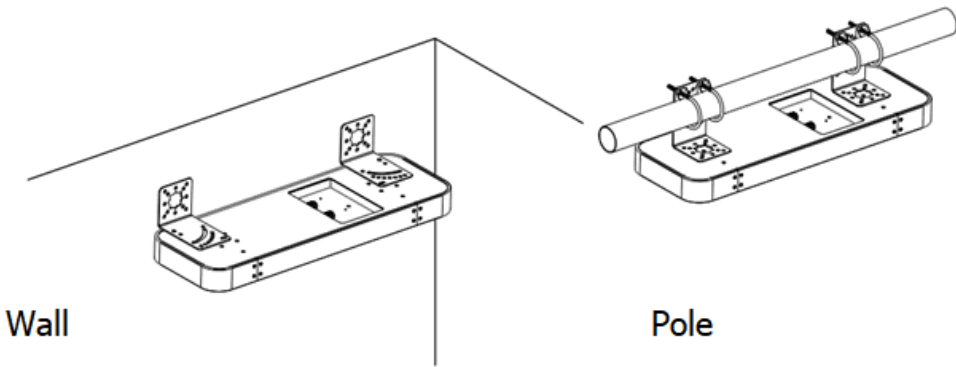


d5 ▲

Curve Info	max	azb10Beamwidth(3)
dB(GainTotal) Setup2 :LastAdaptive Freq=0.92GHz Phi=0deg	10.4949	70.3409
dB(GainTotal) Setup2 :LastAdaptive Freq=0.92GHz Phi=90deg	10.5945	37.4342

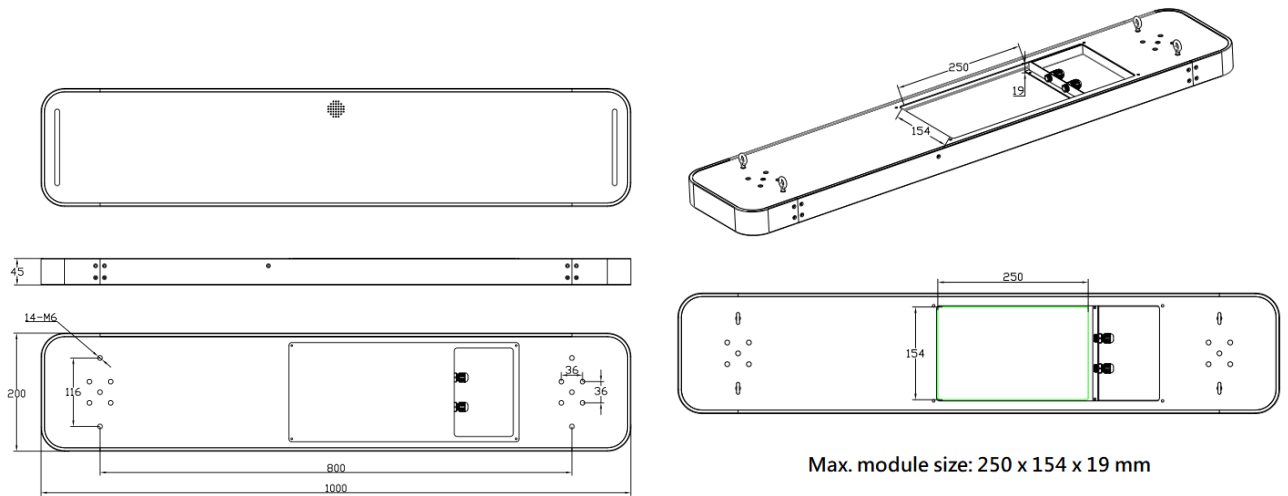


Ceiling



Wall

Pole



Max. module size: 250 x 154 x 19 mm

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Specification

UHF	
RF Module	Impinj E710 VM-61 module + Android control board
Frequency Range	EU 865-868MHz / US 902-928MHz (customizable per country / region)
Protocol	EPCglobal UHF ISO-18000-6C (EPC Gen2), ISO-18000-6B, GB/T29768-2013 (optional)
Antenna	Dual angle circular polarized RFID antenna with VSWR detection
Gain	10 dBi \pm 0.5
Half Power Beamwidth	Horizontal: 70° \pm 2, Vertical: 38° \pm 2
Modulation	Frequency Hopping Spread Spectrum (FHSS) or fixed frequency (software configurable)
Read Distance	6 - 10m (with 10 dBi antenna, depends on tag performance)
Signal detection	RSSI signal strength detection
RF Output	33 dBm \pm 1 (MAX) 50 Ω load
Power Adjustment	1 dB step
Alarm	Audible and visual alarm
Trigger sensor	Infrared \leq 3m (optional), LiDAR \leq 12m (optional), mmWave \leq 40m (optional)
Power Consumption	Average <10W
Power Supply	220V AC input + 12V / 3A DC output converter
Software	
API Interface	Development kit with VC, VB, and Java examples
Firmware	OTA upgrade
Communication	
Interface	RS232, RS485, Wiegand 26/34, TCP/IP, wireless (optional)
Rate	Serial port: 9600-115200bps, RJ45: 10M/100Mbps adaptive
GP I/O Interface	PR9 connector
User Environment	
Operating Temperature	-20 °C to +60 °C
Humidity	5% to 95% non-condensing
Sealing	IP65 per IEC sealing specifications
Lightning Protection	DC grounding
Physical Characteristics	
Installation	Ceiling mounted, wall mounted, pole mounted
Pole Diameter	35 - 50mm
Panel Material	Acrylic
Frame Material	Aluminum alloy
Dimensions	1000 (L) x 200 (W) x 45 (H) mm (excluding brackets)
Weight	3 kg



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