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The 2.45 GHz Gain Adjustable RFID Reader uses a built in omni-directional antenna allowing it to identify transponder tagged items up to 100 meters in all directions. Users can adjust the identification distance from less than 5 meters to 100 meters according to actual situations in order to make identification more accurate. The reader uses an advanced 0.18 µm CMOS IC for ultra-low power consumption. The reader features optional built in PoE (Power over Ethernet) which is the ability for the LAN switching infrastructure to provide power over a copper Ethernet cable to an endpoint or powered device.

Applications

- ✓ Personnel Tracking
- ✓ Logistics
- ✓ High Value Asset Tracking
- ✓ Warehouse Management
- ✓ Closed Loop Asset Tracking

Technical Specifications

Direction	Omni-directional, standard whip antenna
Range	0 to 100 m adjustable
Frequency	2.4 GHz to 2.5 GHz ISM (UHF-Ultra High Frequency)
RF Output Power	0 dBm
Sensitivity	-90 dBm
Power	50 mA, 9 V
Modulation	GFSK
Modes	Direct Mode and Buffering Mode. In direct mode, the reader uploads messages to the host system in real time. In buffering mode, the reader save messages, which are uploaded only when requested by the host system
Dimensions	126 x 104 x 28 mm
Data Rate	1 Mbps
Interface	TCP/IP (RS232 is optional) (PoE is optional)
Operating Temperature	-40 °C to 80 °C
Operating Humidity	95% Non-condensing
Multi-Detection	100 tags/sec

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