

Long-Range RFID

Ultra Long Range, Hands-Free Reader

RFID solutions for Vehicle, Asset and Personnel Tracking

The PureRFid Ultra Long Range RFID Reader is used for receiving status messages from the PureRF Tags. Range adjustable antennas can be discretely hidden to identify and track Tag activity.

Readers can operate individually for small applications or as a network of Readers for covering wide areas.

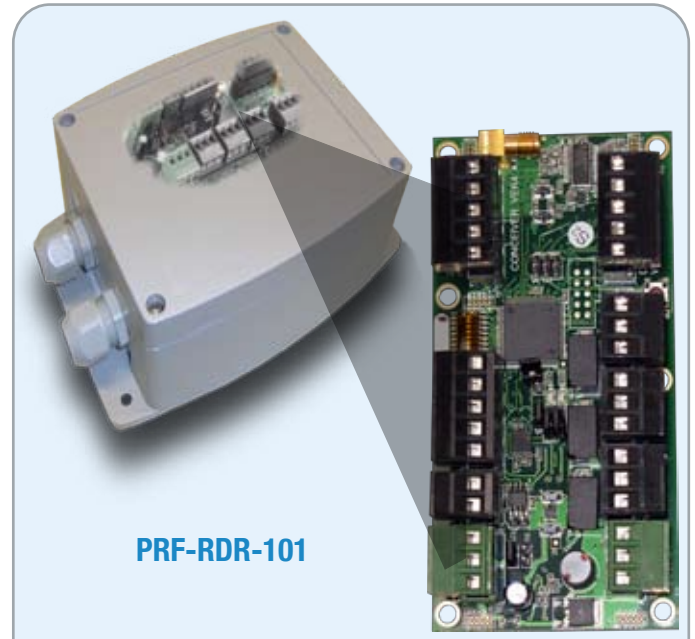
The PRF-RDR-101 is an intelligent, small Long Range RFID Reader with an integrated protocol converter. The protocol converter supports various standard interfaces such as 26 bit Wiegand format, serial RS-232, serial RS-485 or LAN protocols, which can be utilized in various solutions.

Main Features

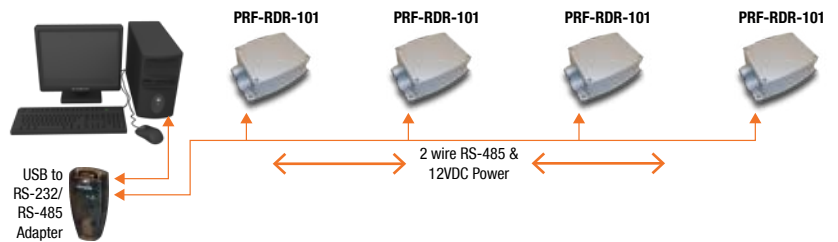
- Simultaneous multiple active Tag read capability. Up to 255 serial Readers can be linked via CAT 5 cabling
- Wiegand, Serial or LAN protocols
- Integration with WiFi modules is enabled
- Small, lightweight, with low power draw
- AutoLocate™ Dynamic Tag Tracking
- Three onboard relays configured for Tag read, tamper, and low battery indications or software controllable
- Adjustable Tag read range 15 to 500 feet (4.6m to 150m)
- Proprietary algorithm oversees communication between Tags and Readers
- Sensitivity adjustments are programmable via PC
- Both Omni-Directional and Directional antennas are available

Zone Control RFID Tracking in an Office Environment

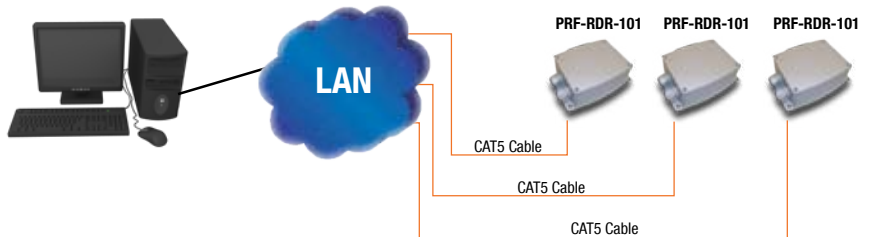
PureRF Tags and Reader provide an accurate, real-time and dynamic means to detect, track, control, and monitor assets, vehicles, and personnel. This technology can be applied to operations and processes in all types of industries.



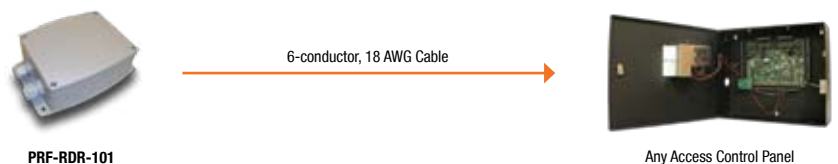
Basic Serial Configuration



Basic Ethernet Configuration



Basic Wiegand Configuration



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Specifications

Rx Frequency

433.92 MHz

Power In

11.5VDC - 13.5VDC, 50mA

Power Out

Voltage: dependent upon input
Amperage Max = 500mA

Operational Temperature

-40 °F to +176 °F
(-40 °C to +80 °C)

Storage Temperature

-40 °F to +176 °F
(-40 °C to +80 °C)

Humidity

5% to 90% (non-condensing)

PRF-RDR-101 (With Enclosure)

Size 7.7" x 5.3" x 2.8"
Weight 4 oz

Enclosure IP Rating

IP 65 - When included connectors are used, but can be used with 1/2" conduit to increase to IP66

PRF-RDR-101-PCB (Without Enclosure)

Size 2.32" x 4.3" x 0.8"
Weight 7 oz

Certification

FCC



Parts and Ordering Information

PureRFid Ultra Long Range Readers	
PRF-RDR-101	Serial (RS-232/RS485) and Wiegand (26 bit) long range Receiver with an IP65 enclosure. (No antenna included)
PRF-DEMO-KIT	A introductory kit that comes with the PRF-RDR-101, an IP65 enclosure, a 12VDC plug-in power supply, a small internal antenna, the PRF-RR-ADJ-KIT cable kit and 6 PureRF Tags.
Programming Cable and Antenna Options	
PRF-RR-ADJ-KIT	Receiver RS232 DB9 Cable Kit with USB to Serial Adaptor for PRF-RDR-101 parameters settings such as Range Programming
PRF-ANT-BLADE	Small Omni Directional Antenna for non-directional low range applications (can be located inside Reader enclosure)
PRF-ANT-RAEK	Small Omni Directional Remote Antenna for non-directional medium range applications (Can be located away from Reader)
PRF-ANT-RADK-CP	Large Directional Remote Antenna for directional long range applications (Can be located away from Reader)
PRF-ANT-RADK-PAT	Large Directional Remote Antenna for directional long range applications (Can be located away from Reader)

Antenna Options



PRF-ANT-BLADE



PRF-ANT-RAEK



PRF-ANT-RADK-PAT
PRF-ANT-RADK-CP

