

Long-Range RFID

Ultra Long Range, Hands-Free Reader

RFID solutions for Vehicle, Asset and Personnel Tracking

The PureRF 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
- Adjustable Tag read range .5 to 500 feet (0.15ft to 150m)
- Proprietary algorithm oversees communication between Tags and Readers
- Sensitivity adjustments are programmable via PC
- Both Omni-Directional and Directional antennas are available

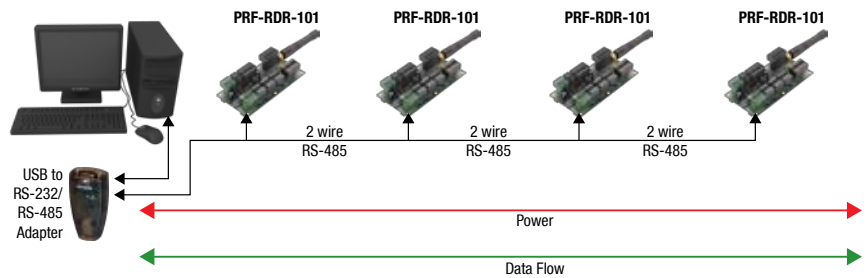
Shown below is a four zone vehicle lot protected by PureRF Reader and Tags.

The read zones show the large areas that can be monitored with a PureRF system. One of the most dynamic features of PureRF products is that Readers do not interfere with other Readers if their zones overlap.

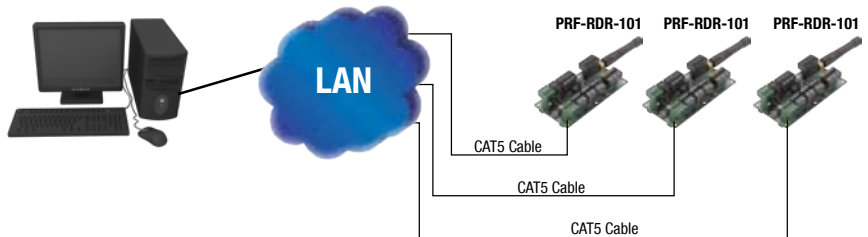


PRF-RDR-101

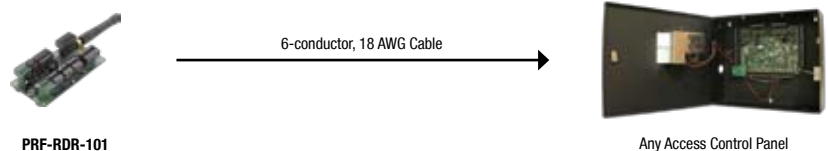
Basic Serial Configuration



Basic Ethernet Configuration



Basic Wiegand Configuration



Long-Range RFID

Ultra Long Range, Hands-Free Reader

RFID solutions for Vehicle, Asset and Personnel Tracking

Specifications

Rx Frequency

433.92 MHz

Power

11VDV - 16VDC, 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 (OEM - without antenna)

Size 59mm x 108mm x 20mm
Weight 113 grams
Enclosure Adjustable per application
IP54, IP65 and others

Ethernet Interface Physical

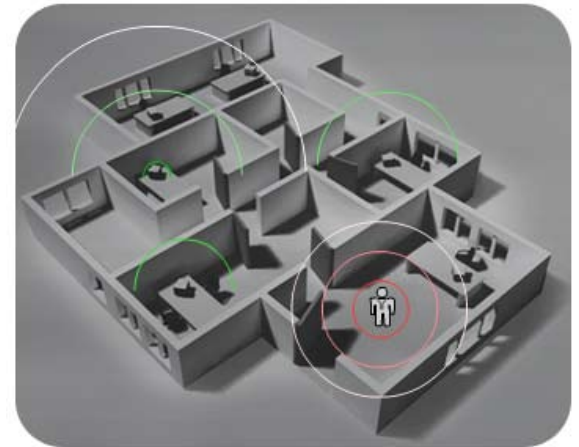
Size 69mm x 44mm x 24mm
Weight Approximately 25 grams

Certification

FCC

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.



Parts and Ordering Information

PureRF Ultra Long Range Readers

PRF-RDR-101

Serial (RS-232/RS485) and Wiegand (26 bit) long range Reader and intelligent converter. Includes PC Software for adjustable Reader's parameters such as range (0.5' to 500' / 0.15 to 150m), Reader's name, etc.

PRF-LAN-101

TCP/IP module for LAN communications with the PRF-RDR-101 Reader

PRF-RDR Reader API (and Programming Kit)

PRF-API

Application Programming Interface with a friendly GUI and Cable Kit for PRF-RDR-101 parameters' settings such as Range Programming

Contact sales to discuss antenna options