RT 202 Ethernet RFID Reader Receiver Data Sheet

REAL**TIME**
location

Receiver Info

Readers provide the link(s) between the Wireless Location Module (WLM) network and the management software.

- Each network requires a minimum of one receiver. Multiple receivers can be installed to extend coverage.
- Each receiver requires power and Ethernet cable connection.

Electrical Specifications

- Supply Voltage 12Vdc, at Gateway terminals;
- Current consumption typically 70mA
- Both relays outputs single pole changeover 1A max @ 12Vdc non inductive.

RF Specifications – 868.95MHz, 867.90MHz, 915.15MHz

- Range, RSSI adjustable from 1m to 100m line of sight;
- Operating frequency 868, 867.90 & 915.15/915.30 MHz;
- Low ageing frequency reference, <1ppm per annum;
- Noise figure 1.5dB;
- Input SAW filter 1200 kHz 3dB bandwidth;
- IF filter bandwidth 110kHz, double filtered;
- Demodulation. FSK optimised for +/- 40 kHz deviation;
- Channel spacing 100kHz;
- Excellent blocking and adjacent Channel rejection;
- Antenna socket SMA 50 Ohm;
- RF input return loss 11.2 dB;
- Sensitivity >=-105 dBm;
- Max RF Input +20 dBm.

Data Interfaces

- RS485 full duplex, maximum 64 receivers per network
- Ethernet connectivity on-board;
- RS485 line termination via software command;
- RS232 if connected to active port, disables RS485 communications;
- 19200 baud 8n1 protocol;
- Polled 24 tag deep, first in last out (FILO), data buffer;

Environmental

- Operational temperature -60 ºC to +85 ºC;
- Storage temperature -10ºC to +70ºC;
- Humidity 5% to 99% (non-condensing).

Features

- Site pre-configured for easy installation;
- Fully network command configurable for easy setup; ⌷SEP⌷
- Quick reporting of alarms to network; ⌷SEP⌷
- Large onboard tag database, to which tags can be added or removed ;
- Local and communicated alarm facility for portals;
- Radio protocol uses 16 bit CRC for extremely high data integrity ;
- Compatible with active RFID personnel and assets/badges/tags;

Physical specification

- Enclosure ABS Composite
- Enclosure dimensions 137 x 110 x 45mm