

Wavetrend Asset Reader (TTL)

L-RX100

Description:

The Link-it™ Receiver detects and decodes RF transmitted signals from Tags. Interpreted data is converted into electrical information that is passed down the Reader-net (Network of readers).

Each Receiver in a Link-it™ Active Tagging System is programmed with a unique Receiver address.

Receivers can be used in stand-alone mode or in a multi-drop asynchronous network.

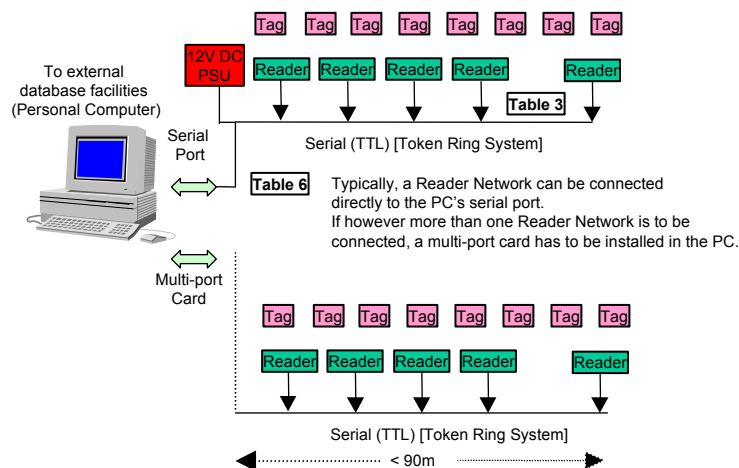
Mounting the Receiver depends on the type of application. The standard method is fixed screw mounting.



Features:

- Up to 255 unique Receiver Addresses possible
- Low power consumption
- Encoded Data Transmission
- Reader status indication by LEDs at RJ45 connectors
- Rough range adjustment facility to enable read range variability

Basic Configuration:



Specification:

Technical Specification

RF Specifications

| | |
|--------------|--------------------|
| Rx Frequency | 434Mhz |
| Demodulation | ASK |
| Sensitivity | -103 dBm |
| Bandwidth | 700kHz |
| Stability | 2ppm/°C |
| RF Input | 50Ohm BNC (Female) |

Electrical Specifications

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|-------------------------|----------------------|
| Supply Voltage | 8.5VDC – 13.6VDC |
| Max current consumption | ±30mA |
| ESD protection | 2kV Human Body Model |

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|---------------------------|-----------------|
| Standard Data Rate (Baud) | 57600, 8, n, 1 |
| Interface | RJ45 connectors |

Environmental

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|-------------------------|----------------------------|
| Operational temperature | -10° C to +60° C |
| Storage temperature | -20° C to +70° C |
| Humidity | 5% to 90% (non condensing) |

Physical

| | |
|--------------------------|--------------------------------|
| Size | 84mm x 40mm x 19mm |
| Weight | 45 grams |
| Colour | Dark Grey (Clariant 04-600 2%) |
| Type of material | PVC (ultrasonically sealed) |
| Input/Output Connections | 2 x RJ45 Sockets |

Certification

The following standards applied in accordance with Article 5 of the directive, 1999/5/EC:
EN 300 220-1 V1.2.1 (1997-11)
ETS 300 683 (1997-03).

Summary of tests:

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|--------------------------|--|
| Effective radiated power | 25MHz-4GHz |
| EN55022 | Radiated emissions 30MHz – 1GHz |
| EN55022 | Conducted emissions 150kHz – 30MHz |
| EN61000-4-3 | Radiated immunity 80MHz – 1GHz, excl 433.92MHz±20MHz |
| EN61000-4-4 | Electrical fast transients |
| EN61000-4-2 | Electrostatic discharge |
| EN61000-4-6 | Conducted immunity 150kHz – 80MHz |

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