

## ACTIVE RFID



- Singular use or as the end reader in an multiple reader daisy chain network
- Standalone store mode for up to 300 tags
- Selectable Wiegand conversion outputs
- Mustering and Collision avoidance functionality
- Supports RS232, RS485 and USB connection
- Supports wide variety of antennas to achieve custom coverage areas
- Compatible with L Series

The RX211 reader detects and decodes RFID (radio frequency identification) signals from Wavetrend's range of active RFID tags. It can operate in rugged conditions at ultra long ranges, subject to the appropriate antenna being fitted to the unit.

### Access Applications

The RX211 can be configured to run in direct control via a PC or in response mode as a standalone unit. In direct control the client PC will receive data from the Access reader and can switch the readers IO's on off to lift barriers open/ shut doors as directed.

The Wavetrend RX211 is the perfect access solution for SME's , Up to 300 unique tag IDs and IO positions can be loaded into the Access reader, once uploaded the Reader will respond automatically without the need for a PC and software application.

The RX211 data output can be selected as a Wiegand output allowing it to be directly controlled by existing Door controllers.

### Worker Safety

The RX211 can be deployed as a standalone unit for both tag detection and mustering scenarios. In a tag detection application, the user can select the distance that a tag is read and a response from the IO's, ideally suited for proximity alarms in industrial applications. When a fixed list of up to 300 assets is required in or out of a zone, the Access reader can be preset to respond to all in all out events.

KEY FEATURES	BUSINESS BENEFITS
Remote readers are powered via standard CAT5 cable centralised or distributed PSU topology may be used.	Units can be powered over the network or individually depending on the clients requirements
Certified for FCC and ETSI	Can be deployed in all major countries
High RF long and short range sensitivity	High near field resolution < 0.5m
USB connection	Allows easy installation diagnostics and demonstrations
RF hardened receiver	Maintains high performance in RF noisy backgrounds
Configurable protocol support for L series	Can read both L series tags
Selectable Wiegand format output	Connecting directly into existing door controllers the RX211 can be used as a direct replacement for a passive swipe card reader.
Standalone mode	Automatic response to pre loaded Tag IDS and IO control without the need of a PC or software application.

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### Compatibility

The RX211 is designed for use with the Wavetrend IPSU and RX210 serial readers, these products can all be networked using standard Cat5 cabling.

### RX211 Accessories Antenna Ranges

<b>AN100</b>	¼ Whip – up to 50m
<b>AN200</b>	½ Stub- up to 20m
<b>AN350</b>	Circular patch to 150m
<b>AN400</b>	Outdoor Whip up to 150m

### Specifications

<b>Environmental</b> <ul style="list-style-type: none"> <li>Operating temperature</li> <li>Storage temperature</li> <li>Humidity</li> <li>IP Rating</li> </ul>	: -40°C to +85°C : -20°C to +70°C : 5% to 90% (non condensing) : IP50
<b>Physical</b> <ul style="list-style-type: none"> <li>Size</li> <li>Weight (unit)</li> <li>Colour</li> <li>Material</li> <li>Connections</li> </ul>	: 105 mm x 58mm x 28mm : 118 grams : Aluminium Grey : Aluminium : 1 x RJ45 socket : 1 Mini USB type socket : 2.5mm Power socket : 2 pairs of relay contacts, C, NO , NC
<b>Radio Frequency</b> <ul style="list-style-type: none"> <li>Receive Frequency</li> <li>Modulation</li> <li>RF Input</li> </ul>	: 433.92 MHz : ASK : 60 Ohm BNC
<b>Electrical</b> <ul style="list-style-type: none"> <li>Supply Voltage</li> <li>Max. current consumption</li> <li>Two pairs of re lay contacts rated</li> </ul>	: 7V ~ 16Vdc : 60 ma :1A
<b>Protocol Specification</b> <ul style="list-style-type: none"> <li>Standard Data Rate</li> <li>Interface</li> </ul>	: 9,600 ~ 115,200 (baud rate) : RJ45 connectors

### Serial Networking hardware

Completing the networking suite please for all power and access control requirements please refer to the RX210 and IPSU.



RX210



IPSU

\*Read ranges are affected by environmental conditions and site configurations and may not match those stated in this sheet. Read ranges will generally be greater outdoors than indoors. With specialist antennas, ranges in excess of 500m can be achieved.

### FCC Statement of Conformity Wavetrend RX211

This device complies with Part 15 of the FCC rules subject to the following two conditions:

- 1) This device may not cause harmful interference.
- 2) This device must accept all interference received, including interference that may cause undesired operation.
- 3) Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Certified for FCC and CE use



#### Ordering & Further Information

For more information on purchasing the RX211 please email the Wavetrend Sales team:

[sales@wavetrend.net](mailto:sales@wavetrend.net)

For more information on Wavetrend® visit our website.

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