WAVETREND®

RFID | ACTIVATING YOUR BUSINESS

ACTIVE RFID

RX1510
GPRS Reader

- Global GPRS Coverage
- Real time reading of Wavetrend active RFID tags
- GPS Location powered by Sirf Star IV
- Total wireless deployment capability
- Store and forward functionality
- Power options for fixed and vehicle deployment
- Supports wide variety of antennas to achieve custom coverage areas

The RX1510 reader breaks the boundaries of wired deployment, powered from any 6V to 28V supply its application are as wide as the requirements of the installer. The RX1510 GPRS Reader provides complete global visibility of Wavetrend tagged assets regardless of location and communicates tag data over global GPRS cellular networks.

Typical Applications

This reader is ideally suited for both mobile and fixed site applications. Its ease of deployment coupled with web-based Wavetrend Smart Analyser software allows the user to instantly view their readers and tagged assets at any location.

The unique power options of the RX1510 enables it to be deployed in vehicles using both 12V and 24V supplies. Examples of in-car monitoring include in-transit monitoring of assets, VIPs, remote man down systems for loan workers.

The RX1510 is equally easy to deploy on tractor units and can be used as part of a fleet management system. It not only provides the location of the tractor but when combined with Asset tags on the trailer will provide the customer with tractor trailer identification.

When combined with a 12V battery and solar cell the RX1510 can be used as a standalone reader for application where a wired network connection is not possible, typical applications include construction and farming equipment.
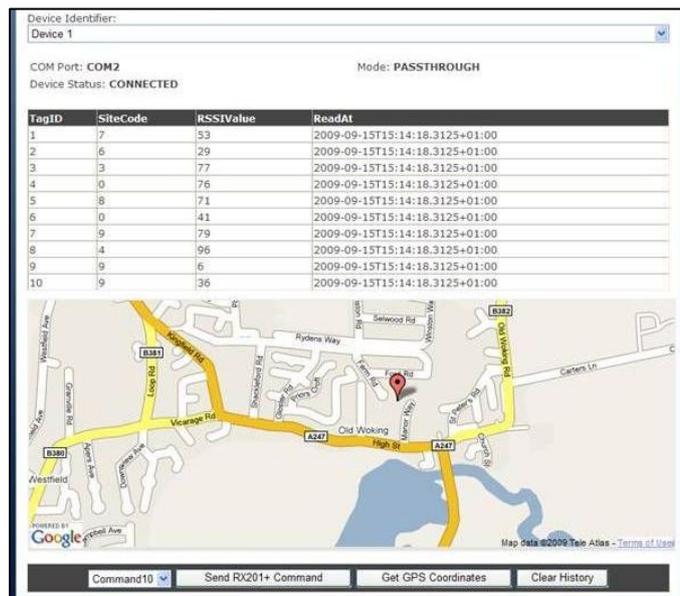
Smart Analyser

The Smart Analyser web-based software allows the installer to login into the RX1510s.

This interface displays the tag read information and allows the user to set the operational business rules for their units. These include the reporting time and alert overrides if required.

The tag data and locational information within the Smart Analyser database can be linked in real-time to a 3rd party database enabling the user to easily import the data and use it for their business needs.

A hosted Bureau Service is available with the RX1510 GPRS Reader. Please ask for further details of the hosted service.

Operational Settings

The RX1510 can be operated in either Manual or Store Poll modes.

In Manual Poll the reader will return the tag data of any tags in view as well as its GPS location on request.

A unique feature of the RX1510 is its on-board real time clock. When in Store Mode each tag event is recorded, time stamped and logged in the reader's internal memory.

The RX1510 can hold up to 1000 individual L series tags. This can be increased upon request.

To manage air time tariffs the user can choose to download data as often or as infrequently as they wish in the knowledge that the data they will be receiving has been time stamped by the reader.

In the event that the user needs to be made aware of any event alarms, tag arrival, tag leaving, tag in tamper, tag in motion, reader in motion, these conditions can be set up for instant messaging via the Smart Analyser.

Specifications

Environmental	
• Operating temperature	: -40°C to +85°C
• Storage temperature	: -20°C to +70°C
• Humidity	: 5% to 90% (non condensing)

Physical	
• Size	: 125mm X 80mm X 30mm
• Weight (unit)	: 200 grams
• Colour	: Aluminium Grey
• Material	: Aluminium
• Connections	: 2 pairs of relay contacts, C, NO , NC
	: 1 Mini USB type socket
	: 2.5mm Power socket

Radio Frequency	
• Receive Frequency	: 433.92 MHz
• Modulation	: ASK
• RF Input	: 50 Ohm BNC
• GPRS	:SMA
• GPS	:SMA

Electrical	
• Supply Voltage	: 9V ~ 28Vdc
• Max GPRS current consumption	: 2A
• Max GPS current consumption	:100ma
• Sleeping current consumption	:25ma
• Average current consumption	:30mah

RX1510 Accessories
Antenna Ranges

AN100	¼ Whip up to 50m
AN200	⅛ Stub- up to 20m
AN360	Circular patch up to 150m
AN410	Outdoor Whip up to 150m

*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.

AN100   **AN200**   **AN360**   **AN410**

Ordering & Further Information
For more information on purchasing the RX1510 please email the Wavetrend' Sales team:

sales@wavetrend.net

For more information on Wavetrend® visit our website www.wavetrend.net

Certifications CE iDA RoHS