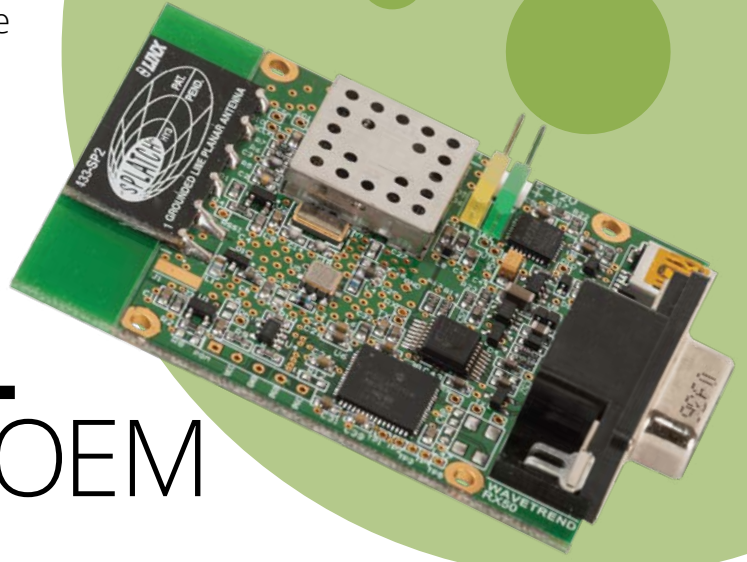# WAVETREND)))

Wavetrend's RX50 OEM is a compact board level Active RFID Reader and is suitable for applications that require RS232 serial or USB host computer connectivity. It is provided without enclosure and so is the ideal choice to integrate into 3rd party hardware to add Active RFID reading capability.

BOARD LEVEL
READER RX50 OEM

Key Features	Benefits
Compact size	Ideal for integration into 3rd party hardware
Compatibility	Detects and decodes RFID signals from all of Wavetrend's range of Active RFID Tags
Flexible host connectivity	Sends decoded Tag and associated metadata to a host computer via RS232 or USB Interfaces
Comprehensive Tag data and Reader status information available	Enables management of tagged items and the automation of business decisions based on accurate / real-time knowledge of location
Configurable site code and signal strength filters	Provides control over Tags being read
On-board patch Antenna	Supports the most compact implementation
Long read range	Can detect Wavetrend Active RFID Tags up to 20m, subject to installation/environment conditions
Flexible configuration	Can be dynamically configured over serial and USB interfaces
High performance receiver	Features adaptive gain and maintains Tag reads in noisy backgrounds
Power options	Can be powered either directly or via USB or via external power when using RS232

People Tracking & Management

People Safety

Time & Attendance /Access Control

Asset Tracking & Management

Supply Chain, Vehicle & Contents Tracking

Art Protection

BOARD LEVEL
READER RX50 OEM

Specifications

Environmental
Operating temperature	-20°C to +50°C
Storage temperature	-30°C to +60°C
Humidity	5% to 90% (non-condensing)

Physical
Size	55mm x 50mm x 28mm
Weight	60g
Material	Bare PCB

Radio
Receive frequency	433.92 MHz
Read range	Up to 20m (actual range is determined by installation and the usage environment)

RF Input
50 Ohm SMA Female

Electrical
Supply voltage	5V-15V DC via power socket
Maximum current consumption	9mA
Power socket	DC socket suitable for 5.5mm outer diameter, 2.5mm inner diameter, barrel plug with centre positive

Connectivity
Standard data rate	9,600 - 115,200 bps
Interface	DB9 RS232 and USB Mini-B

Certification
CE and FCC - can be deployed in all countries that recognise these regulatory frameworks

To order or for further information ....

WAVETREND))

Wavetrend (Europe) Ltd. Barlavington Stud,
Barlavington, Petworth, West Sussex GU28 0LG, UK
www.wavetrend.net
T: + 44 (0) 330 223 2086/2085
E: sales@wavetrend.net