

This reader is ideally suited for use in systems that track tagged assets such as containers, plant and machinery or high value assets, or for monitoring personnel in health and safety or security applications.

The active RS485 / RS232 RFID reader detects and decodes RF transmitted signals from compatible Wavetrend tags. The data from detected tags is sent by the reader via RS485/RS232 or USB to authorized corporate computing systems. It can be used in two modes: hardware auto-polling mode for continuous feed of tag data to the system in the fastest possible manner and software polling mode for dynamic communication with each reader by software applications, instant notification of reader offline and customization of reader polling order and frequency.

This active reader is ideally suited for use in systems that track tagged assets such as containers, machinery or other high value assets or for monitoring personnel in health and safety or security applications. It can be used to create RFID networks within buildings. For more robust and rigorous uses, they can be deployed externally across large complexes, such as container ports, warehouses or external yards.



Key Features

- ✓ Up to 255 unique Receiver Addresses possible
- ✓ Remote readers are powered via standard CAT5 cable, centralized or distributed PSU topology may be used.
- ✓ Reader status indication by LED's at RJ45 connectors
- ✓ RS232, RS485 and USB connection
- ✓ Compatible with both L Series and L Series+ tags
- ✓ Singular use or as part of multiple reader daisy chain network
- ✓ Easy remote configuration via the reader network
- ✓ Supports wide variety of antennas to achieve custom coverage areas

Technical Specifications

Radio Frequency	
Receive Frequency	433.92 MHz
Modulation	
Modulation	ASK
RF Input	
RF Input	50 Ohm BNC
Protocol Specification	
Standard Data Rate	
Standard Data Rate	9600-115200 (baud rate)
Interface	
Interface	RJ45 connectors
Electrical	
Supply Voltage	
Supply Voltage	7 V-16 Vdc
Max. Current Consumption	
Max. Current Consumption	20 mA
Physical	
Size	
Size	105 mm * 58 mm * 28 mm
Weight (unit)	
Weight (unit)	118 grams
Color	
Color	Aluminium Grey
Material	
Material	Aluminium
Connections	
Connections	2 RJ45 sockets
	1 Mini USB type socket
	2.5 mm power socket
Environmental	
Operating Temperature	
Operating Temperature	-40 °C to 85 °C
Storage Temperature	
Storage Temperature	-20 °C to 70 °C
Humidity	
Humidity	5% to 90% (non-condensing)

Typical read ranges of tags with various antennas

(Distances may vary depending on the ambient RF environment 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 500 m can be achieved.)

Antenna Type	Read Range
304001	¼ Whip up to 50 m
304002	½ Stub- up to 20 m
304004	Circular patch up to 150 m
304005	Outdoor Whip up to 150 m

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