

This active RFID solo reader provides instant report of detected tags while the data from detected tags is transferred by the reader via RS232 or USB.

The solo RFID reader detects and decodes RFID signals from compatible Wavetrend tags. It provides instant report of detected tags while the data from detected tags is sent by the reader via RS232 or USB to authorized corporate computing systems. Tag data is configurable and read range can also be filtered. The reader features extremely low current consumption and can be powered directly from RS232 or externally.



The reader is available in two different models; solo which has an SMA connection to an external antenna and OEM which is a PCB based unboxed reader that includes an on board patch antenna. This active RFID solo reader is ideally suited for customer demos as a standalone unit when connected over USB. It is primarily designed to be integrated with 3rd party hardware utilizing the RS232 port which makes it an ideal choice for adding Active RFID reading capability to telematic systems.

Key Feature

- ✓ Compact Size
- ✓ Reader status indication by LED's at RJ45 connectors
- ✓ Certified for FCC and ETSI
- ✓ High RF long and short range sensitivity
- ✓ USB connection
- ✓ RF hardened receiver
- ✓ Supports Full RX2XX Protocol
- ✓ Two modes of data transmission:
 - ✓ Hardware auto-polling: tag data provided automatically from Reader network
 - ✓ Software polling: tag data requested from each reader individually by intelligent edge devices or host application.

Compatibility

This solo reader supports the 214011/214041 protocol including their baud rate ranges. The extremely low current consumption allows the reader to be driven by some RS232 devices directly. Not all RS232 provide sufficient current so, in this event, the reader can be powered via its 2.5mm Power Socket. Despite its small size, the reader is capable of reading tags at ranges from 0.5 to 500m. The Solo reader can be connected to any SMA male antenna or via a SMA to BNC connector.

Accessory

Antenna Type	Read Range
304023	1/8 Stub- up to 20m



Technical Specifications

Environmental	
Operating temperature	- 40 °C to 85 °C
Storage temperature	- 20 °C to 70 °C
Humidity	5% to 90% (Non condensing)
Physical	
Size	55 mm x 50 x 28mm
Weight (unit)	80 grams
Color	Aluminium Grey
Material	Aluminium
Connections	1 RS232 DB9 socket

1 Mini USB type socket
2.5mm Power socket

Radio Frequency

Receive Frequency 433.92 MHz

Modulation ASK

RF Input 50 Ohm BNC

Electrical

Supply Voltage 3.3 V to 15 V DC via power socket

Max. current consumption 9 mA

Protocol Specification

Standard Data Rate 9,600 to 115,200 (baud rate)

Interface RS232/USB connectors

GAO Group

GAORFID.com

GAOTek.com

GAOResearch.com

Toll Free (USA & Canada)

1-877-585-9555

All Other Areas

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