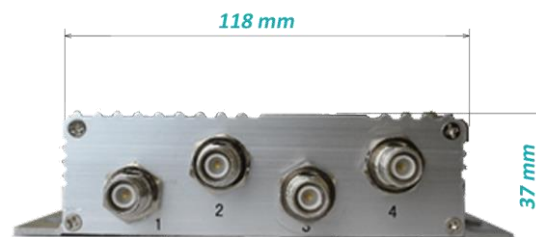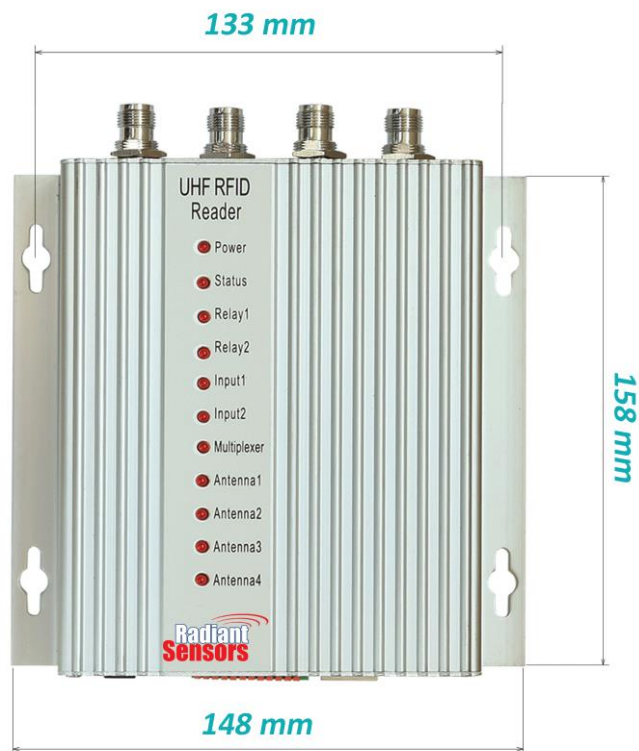# Technical Datasheet

RSWR-400
4 Port UHF RFID Reader

Radiant Sensors' wireless 4-port UHF RFID Reader enables the deployment of best-in-class EPC Gen 2 RFID solutions for retail, supply chain, manufacturing and mobile asset tracking applications. The RFID reader's standard LLRP application interface, coupled with the integrated Wi-Fi network option, provides low cost and quick integration with any software applications as well as the enterprise's existing Wi-Fi networks and security standards. This UHF RFID reader has built-in Anti-theft and middleware applications.

Features

- Reduced development time provided by powerful embedded software
- Ethernet and Wi-Fi network connectivity
- *Access Point* and *Client* mode support
- Orientation-insensitive design resulting in faster and more accurate tag reads
- Fast read rate for demanding applications
- Region-free application
- Best-in-class receive sensitivity
- Enhanced interference rejection
- Rugged yet compact and lightweight
- IP51 sealing for dust and water resistance
- Low cost for high volume deployment
- Low power usage
- Extensive data import/export capability allowing integration with other systems
- Two digital input ports
- Four digital output ports
- Two pairs of relay interfaced output ports
- Four independent, bidirectional, full duplex TX/RX UHF antennas
- Built-in activity indicator buzzer
- Wi-Fi, input-output and power indicator LEDs
- Browser-based intuitive setup software
- Configurable on Reading or Anti-theft mode

Technical Datasheet

Applications

- Retail
- Supply chain
- Manufacturing
- Mobile asset tracking
- Office/home security
- Personal identification
- Access control
- Access management
- Anti-forgery
- And any applications requiring secure and controlled access to different environments.

Radiant Sensors designs, develops and manufactures passive and active RFID hardware products as well as IoT sensor devices for short-range and long-range wireless identification technology.

Our devices are field-proven and have been in operation for many years throughout the world.

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Specifications

Model No.	RSWR-400
Description	4 Port UHF RFID Reader with Wi-Fi
Antenna Ports	4 high performance monostatic antenna ports (RP TNC Connectors)
Air Interface Protocol	EPC global UHF Class 1 Gen 2 / ISO 18000-6C
Supported Regions	840-960 MHz, EU, US, Canada, JP and other worldwide regions. Region is user selectable.
Transmission Power Range	+15.0 to +30.0 dBm
Stepping Interval	1-2 dBm
Max Reading Range	24 Meters using 12 dBi Antenna
Max Receive Sensitivity	-82 dBm
Reading Rate	Over 400 tags per second
Min Return Loss	10 dB
Application Interface	EPCglobal Low Level Reader Protocol (LLRP) v 1.0.1, Radiant Sensors SDK
Built-in Applications	Anti-theft, Middleware
Network Connectivity	Wi-Fi, 10/100BASE-T auto-negotiate (full/half) with auto-sensing MDI/MDX for auto crossover (RJ-45)
IP Address Configuration	DHCP, Static
Management Interfaces	Radiant Sensors Web Management User Interface
GPIO	4 inputs, optically isolated, 3-15V 4 digital outputs, optically isolated 2 Relay outputs 5 Volts output
Power Supply	+12 VDC @ 2000mA via external universal power supply
Environmental Sealing	IEC IP51
Operating Temperature	-20 °C to +60 °C
Storage Temperature	-40 °C to +85 °C
Humidity Range	10% to 90% RH
Dimensions	18 x 14.5 x 3.7 cm (7 x 5.7 x 1.4 in)
Weight	570 Grams
Colour	Silver
Material	Aluminium