RS804 4-port RFID UHF IoT Reader

The Unitech RS804 is a powerful UHF/RFID fixed reader/writer with 4 antenna ports, versatile host options and connectivity options. Having a fully featured software development kit (SDK), the RS804 also comes with an open Application Programming Interface (API) that can be used by the users to integrate the device to do accurate data transmission from client to host in a total RFID solution.

The RS804 is ready to deliver the fast, accurate and dense read capability for today's business requirement. This device is equipped with most advanced RFID radio technology and an Impinj R2000 chip. It boosts the superior performance and the read rates is up to 900 read tags/sec. Supporting a global frequency range of 865MHz - 928MHz, this device is capable of reading and writing all tags that conform to EPC global Class1 Gen2, ISO/IEC 18000-6C standards.

The RS804 RFID reader/writer is rugged enough to meet challenging environments with its IP52 industrial water resistance and dustproof rating. With its compact form factor and Power over Ethernet (PoE) design, users can easily deploy the RS804 where it is needed without installing extra outlets – ideal for large open environments. RS804 offers various interfaces that make it simple to be deployed in wide applications such as warehousing, library management, logistics, kiosk services and production equipment tracking.

Application Examples

- Warehousing and logistics
- Shipment tracking system
 Inventory management
- Manufacturing
 - Production equipment tracking
 - Operator identifying
- Retail
 - Self-checkout application
 - Kiosk Services
 - Smart shelf
- Library management

Technical Summary

- Operating System : Linux
- Memory: 4GB Flash, 512MB RAM
- EPC Class 1 Gen 2 V2, ISO 18000-63
- Reads up to 900 tags/s
- Transmit power: From +0dBm to +30dBm

Frequency Range: EU: 865-868 MHz US: 902-928 MHz

Communication Interfaces

- GPIO with terminal block: 4 inputs / 4 outputs
- Other interfaces:
 - 1 x RS-232, 1 x RJ45, 1 x DC Jack, 2 x USB Type A, 1 x USB Type B

Features

- 4 antenna port configurations (RP-TNC connector)
- Supports EPC global UHF Class 1 Gen 2 / ISO 18000-6C
- For both EU: 865-868 MHz / US: 902-928 MHz
- +30dBm max transmit power and fast tag reading rate
- Supports Wi-Fi dongle, increases installation flexibility
- Leading read rates up to 900 tags per second Compact
- Form Factor : 225 x 140 x 29 mm
- Enterprise durability: IP52 sealing for ingress protection





RS804 Specifications





Linux kernel 4.4.14

Flash 4GB RAM 512MB

English

Power LED *1

Reader Status LED *1 Wi-Fi LED *1 APP LED *1 Antenna LED *4

EPC Class 1 Gen2 EU: 865-868 MHz US: 902-928 MHz

Operation System

OS Memory

Languages support

Indicator

Type

RFID UHF

RFID Performance

RFID Module RM300 4-Port version (Chip: Impinj R2000) Tag Read Rate 900 tags/sec 4 ports with RP-TNC connectors Antenna Ports **RF** Power output 0dBm to 30dBm, ±1.0dBm (Default 30dBm)

Communication

Wi-Fi Dongle

Antenna (US/EU)

3 meters RF cable

10 meters RF cable

Accessories

WLAN

Accessories





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I/O Interfaces	
USB	USB Type A *2, USB Type B *1
Serial Interface	RS232 (DB9)
Digital IO Interface	4 inputs & 4 outputs
Ethernet Interface	RJ45
Enclosure	
Dimension	225 * 140 * 29mm
Weight	597g
Housing Material	Metal
Durability	
Sealing	IP52
Environmental	
Operating temperature	-20 ~ 60°C
Storage temperature	-40 ~ 85°C
Relative Humidity	5-95% non-condensing
Electrostatic Discharge	+/-12kV air discharge
	+/-8kV contact discharge"

Power Source

Power

DC Jack-in Center pin 2.5mm, diameter 5.5mm (24V/2.7A)

What comes in the box

The standard package contents

RS804 Adapter ALN-9654 RFID Tag

unitech Europe Tilburg / Netherlands http://eu.ute.com e-mail: info@eu.ute.com

unitech Japan Tokyo http://jp.ute.com e-mail: info@jp.ute.com

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