

# RS804

# 4-port RFID UHF IoT Reader 🕮





The unitech RS804 is a powerful RFID fixed reader with 4 antenna ports, versatile hosts and connectivity options. Fully featuring 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 - Impinj R2000 chip, and 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. Besides, this RFID reader is rugged enough to meet challenging environments with its IP52 water resistance for industrial and dustproof rating. With its compact form factor and Power over Ethernet (PoE) design, users can easily to deploy the RS804 where it is needed without installing extra outlets – ideal for large open environment. RS804 offers various interfaces that make it simple to be deployed in wide applications such as warehousing, library management, logistic, kiosk services and production equipment tracking.

#### **Application Examples**

- · Warehousing and logistic
  - Shipment tracking system
  - Inventory management
- Manufacturing
  - Production equipment tracking
  - Operator identify
- 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)
- Support EPC global UHF Class 1 Gen 2 / ISO 18000-6C
- Devices for both EU: 865-868 MHz / US: 902-928 MHz
- +30dBm max transmit power and fast tag reading rate
- Support Wi-Fi dongle, increase 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**



## Operation System

OS Linux kernel 4.4.14
Memory Flash 4GB
RAM 512MB
Languages support English

#### Indicator

Type Power LED \*1
Reader Status LED \*1
Wi-Fi LED \*1

APP LED \*1
Antenna LED \*4

## RFID

UHF EPC Class 1 Gen2

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

### RFID Performance

RFID Module RM300 4-Port version (Chip: Impinj R2000)

Tag Read Rate 900 tags/sec

Antenna Ports 4 ports with RP-TNC connectors

RF Power output 0dBm to 30dBm, ±1.0dBm (Default 30dBm)

# Communication

WLAN Wi-Fi Dongle

## Regulatory Approvals

CE, FCC, VCCI, TELECOM, NCC, BMSI, SRRC

# Accessories

Accessories Antenna (US/EU)

3 meters RF cable 10 meters RF cable





#### **Headquarters**

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#### I/O Interfaces

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  $-20 \sim 60^{\circ}\text{C}$ Storage temperature  $-40 \sim 85^{\circ}\text{C}$ 

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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