

# RS200 UHF RFID FIXED MODEL

## 2-port RFID UHF IoT Reader/Writer



### RS200 UHF RFID Solution

Compact design and high RFID reading rate



The RS200 is PC Based 2-port antenna RFID UHF fixed reader/writer for IoT applications. It is equipped with a wide range input power, USB, UART and 4 GPIO interfaces. With its compact design (100 x 89.4 x 27mm) this fixed reader/writer is not only applicable for RFID portals, but also suitable for POS self-checkout stations, kiosk services and product tracking and identity controls.

This RS200 is a lightweight (216g) fixed reader/writer, equipped with a high-performance RFID module - ThingMagic M6e (Micro) and it is RAIN RFID supporting. The RS200 also support DC Jack and Terminal Block power input interfaces to match the power requirements of the application.

- User can directly control the RFID module inside the RS200 PC Based through the USB (can support x86 64-bit drive), UART interface via M6e API, PLC (programmable logic controller) or a corresponding utility.
- When configured with appropriate antennas this RS200 can read up to 750 tags per second at distances over 9 meters (30 feet) depending on RFID antennas.
- User can leverage high performance M6e module and its rich and diverse SDKs to build their own RFID application system.

## Overall Process Improvement

The RS200 compact form factor can be integrated in most applications

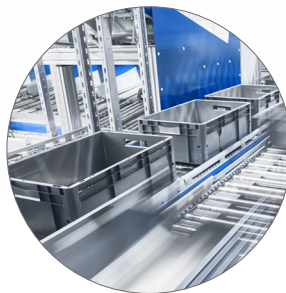
From manufacturing and logistic automation solutions to retail kiosk solutions, the Unitech RS200 can be integrated into a wide range of systems to improve the overall process. RFID Advantages include reduction in errors, workload and time.



#### PRODUCTION CONTROL

By positioning the RS200 at different points on the production line, items passing that point can be identified without human intervention.

Automatically perform product control and sorting based on inspection results.



#### SORTING MACHINE

Build a sorting system with the RS200 that reads the RFID tag information of the sorting box using a reader/writer installed on the branching point and use a control system such as Programmable Controller to switch the destination point.



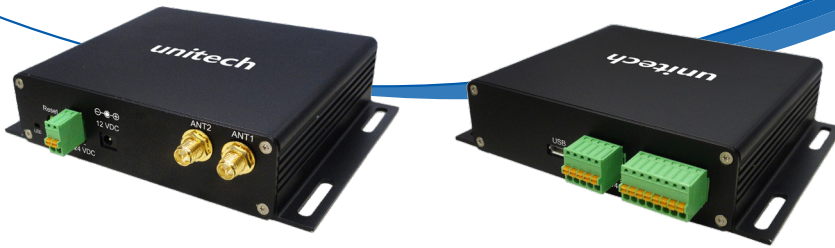
#### AUTOMATIC DISPATCHER

When an order is ready for dispatch, the order can be read by the RS200 for destination and product type control. If the roll container is lead through a gate not matching the destination, an alert cab immediately helps to correct the mistake.



#### UHFTUNNEL

Build a UHF tunnel/gate with the RS200 to optimize the supply chains in logistics. Goods equipped with UHF transponders can be recorded automatically, so that the correct stock is always stored in the company database.



**RFID Performance / Interface**

Standard Supported RFID Engine	EPC Class 1 Gen2 V2 ThingMagic M6e Micro (RAIN RFID supported) Reader/Writer
RFID	750 tags/sec (depends on tags)
Fastest Read Rate	2 ports with RP-SMA connectors
Antenna Ports	0dBm to 30dBm, ±1.0dBm (Default 30dBm) 0dBm to 24dBm (JP SKU only)
RF Power output	Command-adjustable
RF Power control	EU: 865-868 MHz US: 902-928 MHz
Frequency Range	Other regions Pre-configured for these regions: US/EU/JP/TW/CN

**Physical Characteristics**

Dimension	100 x 89.4 x 27mm
Weight	216g

**Standard in the box**

- RS200 reader
- USB cable
- Terminal block



**Accessories**

- 8dbi Antenna for US
- 8dbi Antenna for EU
- 3m SMA RF cable
- 12V/2A power adapter
- 3 Pins Power Cord (EU) for Power Adaptor
- 3 Pins Power Cord (UK) for Power Adaptor

**User Environment**

Vibration shock	MIL-STD-810G. Method 514.6 Procedure I MIL-STD-810G. Method 516.6 Procedure I
Operating Temp.	-20 ~ 60°C
Storage Temp.	-40 ~ 80°C
Humidity	5-95% non-condensing
Electrostatic Discharge	+/-12kV air discharge +/-8kV contact discharge

**User Environment**

Communication	Micro USB connector
USB Interface	USB interface can support x86 64-bit driver VCOM/HID
USB (client role)	USB LAN (RNDIS)
Serial Interface	2 UART Pins (5-pins terminal block connector)
Digital IO Interface	2 DIO 4 GPIO Pins (8-pins terminal block connector)

**Electrical**

Power	DC Jack-in (connected to 12V power adapter) 2 pins DC Terminal block input (12 to 24 VDC)
Push Button	For warm reset
LED	Power Indicator

