



# RS-PR03

Fixed Four-port Passive UHF RFID Reader

## **RS-PR03** Fixed Four-port Passive UHF RFID Reader



**RS-PR03 is a four-port, long-range industrial-grade RFID reader operating in the UHF band, developed based on the Impinj R2000 chip. The reader is equipped with a Linux operating system and features high multi-tag identification efficiency and stable performance under extreme temperatures.**

**It is widely used in asset management, warehousing and logistics, library systems, as well as vehicle and personnel management.**

### **Feature**

- 902-928Mhz FCC, 866-868Mhz CE, other frequency selectable
- Connect 4 antennas external, SMA connector
- Support standard RS-232, USB, Ethernet communication interfaces
- PoE optional
- Multi-reader operating under intensive environment
- Upgrade firmware online

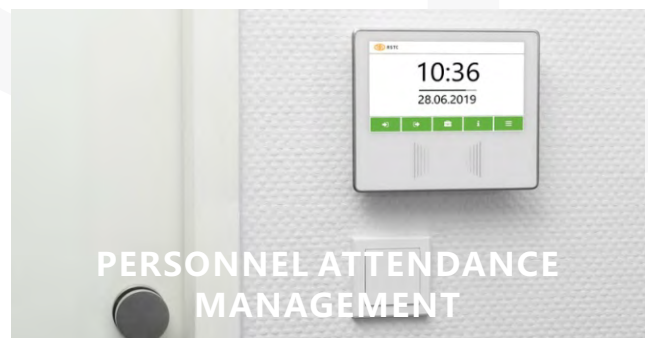
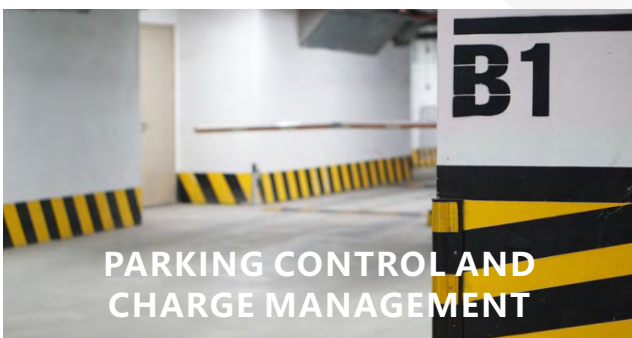
## RS-PR03

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### Product Dimensions



### Application



# RS-PR03 Fixed Four-port Passive UHF RFID Reader

## Specification

### Electrical Specifications

|                               |                                                                                                       |
|-------------------------------|-------------------------------------------------------------------------------------------------------|
| Frequency                     | North America : 902MHz ~ 928MHz<br>Europe : 865MHz ~ 868MHz<br>China : 920MHz ~ 925MHz (optional)     |
| Protocol                      | EPC Class 1 Gen 2 (ISO 18000-6C)                                                                      |
| Output Power                  | +20dBm ~ +30dBm@50Ωload1, 1dBm each step                                                              |
| RF Connector                  | 4 SMA interfaces                                                                                      |
| Communicating Interface       | RJ45, RS232 or USB2.0                                                                                 |
| Optional Interface            | RS485, Wiegand                                                                                        |
| Power Supply                  | DC12V input, PoE (optional)                                                                           |
| Input/Output                  | 2-channel relay output, 2-channel 12V level signal output,<br>2-channel photoelectric isolation input |
| Receive Sensitivity           | < -70dBm                                                                                              |
| Reading Range                 | 0-15 meters (depending on antenna configuration)                                                      |
| Writing Range                 | 0-5 meters                                                                                            |
| Firmware Update               | Ethernet                                                                                              |
| Application Software Platform | API ( C++ , C#) development kit (can be customized)                                                   |

### Mechanical Specifications

|                       |                                                      |
|-----------------------|------------------------------------------------------|
| Product Dimension     | 270mm×165mm×42mm                                     |
| Package Dimension     | 335mm×226mm×133mm                                    |
| Net Weight            | 1.40kg                                               |
| Gross Weight          | 2.21kg                                               |
| Operating Temperature | -40°C ~ +60°C                                        |
| Storage Temperature   | -60°C ~ +80°C                                        |
| IP Rating             | IP54 (If using a waterproof housing, can reach IP65) |
| Operating Humidity    | 5% ~ 95% non-condensing                              |



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