# UR - 004

## UHF GEN2

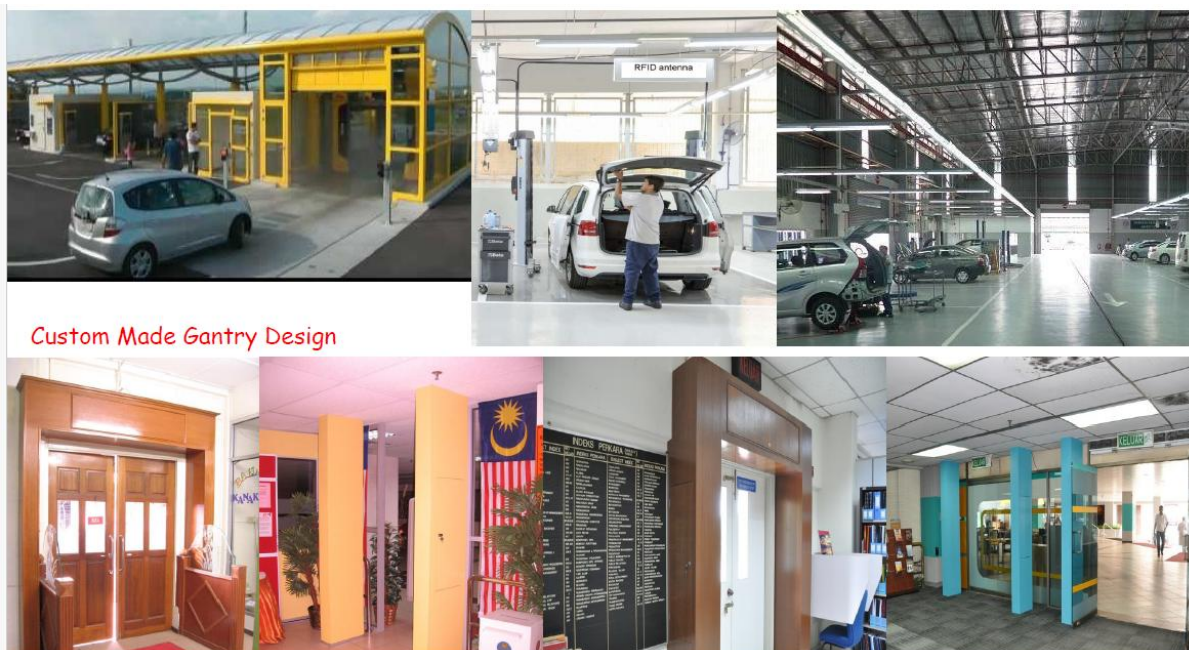## UHF READER – 4 PORTS

## Introduction

The UR-004 brings a new level of cost efficiency to passive UHF asset tracking and inventory management, without compromising on performance. You get all the features you need to achieve maximum visibility and efficiency in your high-volume, rugged environments — from industry leading read rates and exceptional read accuracy to superior RF sensitivity. When only the industry-best RFID performance will do, the UR-004 delivers. To achieve maximum visibility and efficiency in the most rugged environments, customers need an RFID reader that can keep up with the high volume and wide variety of pallets, cases and tagged items that go in, out and through their warehouse and dock doors each day. Now, users can get the performance and features they need to handle it all with the UR-004 UHF RFID reader—without breaking the bank. With industry-leading read rates, exceptional read accuracy and superior RF sensitivity, the UR-004 has what it takes to automate nearly every aspect of inventory management, from receiving and put away to picking and shipping, without errors or bottlenecks. The UR-004 offers the industry-best RFID performance—all at an affordable price.

| APPLICATIONS | FEATURES |
|---|---|
| ➤ Library | ➤ Support ISO18000-6C EPC Gen2 |
| ➤ Warehouse | ➤ RS232, TCP/IP |
| ➤ Production | ➤ Read distance up to 20m |
| ➤ Vehicle Tracking | ➤ RF power control up to 33dBm |
| ➤ Assets Tracking | ➤ Small form factor |
| ➤ Sorting Machine | ➤ Impinj R2000 chip (UM – R2000 – 4) |
| ➤ Conveyor Belt System | ➤ 4 antenna ports |
| ➤ Visitors Tracking In Expo | ➤ High stability with natural cooling |
| ➤ And more… | ➤ Support customization for different types of gantry antennas |

Custom Made Gantry Design

| MODEL | UR - 004 | |
|---|---|---|
| Physical Characteristics | Dimensions | 330 (L)* 240 (W)* 113 (H) mm |
| | Weight | 1.5kg |
| Environment | Operating Temp | -20°C to 55°C (-4°F to 131°F) |
| | Storage Temp | -40°C to 80°C (-40°F to 176°F) |
| | Humidity | 10% to 95% |
| Antenna Connector | 4 x TNC; 50ohm | |
| Power | 3.7V – 5V | |
| Frequency Ranges | 865~868MHz, 902~928MHz frequency band (frequency customization optional) FHSS or Fix Frequency transmission | |
| RF power control | 0 – 33dBm with 1db step (UM – R2000 – 1) | |
| Tag Air Interfaces | EPC Class 1 Gen 2 | |
| Communication Interface | Serial, TCP/IP | |
| GPIO | 1 Output | |
| Baud rate | 115200 bps (default) | |
| Reader Range | Effective reading distance more than 9 meters* (with 6dBiL antenna and E41 tag) | |
| Sensetivity | Support RSSI | |