



Chainway UR1A is a high-performance single-channel fixed RFID reader. Employing self-developed high-performance module based on Impinj E710 chip, and working together with integrated high-performance antenna, UR1A's UHF performance is outstanding. The reader supports RS-232, RJ45 and GPIO communication interfaces. UR1A is applicable widely in warehousing, archives management, library management, banking, production line management and other fields.



## Specification

### Physical Characteristics

|                      |  |
|----------------------|--|
| Dimensions           | 270 x 270 x 77mm /10.63 x 10.63 x 3.03in (9dBi)<br>130 x 130 x 60mm /5.12 x 5.12 x 2.36in (6dBi) |
| Weight               | 2230g /78.66oz (9dBi)<br>620g /21.87oz (6dBi)  |
| Material             | Plastic +Aluminum Alloy  |
| Input Voltage        | DC 9V - 12V  |
| Standby Current      | <30mA  |
| Work Current         | 800mA +/-5%@ DC 12V Input  |
| Comm Interface       | RS-232,RJ45, GPIO  |
| Baud Rate            | 115200bps  |
| Cooling Mode         | Air cooling  |
| Communication Method | 10/100Base-T Ethernet (RJ45)   |

### User Environment

|                 |                                     |
|-----------------|-------------------------------------|
| Operating Temp. | -25°C to 65°C /-13°F to 149°F       |
| Storage Temp.   | -40°C to 85°C /-40°F to 185°F       |
| Sealing         | IP65 per IEC sealing specifications |
| Humidity        | 10%RH -95%RH non condensing         |

### RFID UHF

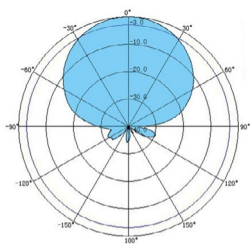
|                        |  |
|------------------------|--|
| Engine                 | CM710-1, based on Impinj E710  |
| Protocol               | EPC global UHF Class 1 Gen 2 /ISO 18000-6C   |
| Frequency              | 865-868MHz /920-925MHz /902-928MHz   |
| Output Power           | 1W(30dBm, support +5~+30dBm adjustable)<br>2W Optional (33dBm, support +10~+33dBm adjustable, for Latin America, etc.) |
| Output Power Precision | +/-1dB   |
| Output Power Flatness  | +/-0.2dB   |
| Receive Sensitivity    | <-84dBm  |
| Fastest Read Rate      | 950+tags/sec   |
| RSSI                   | Supported  |
| Ambient Temp Monitor   | Supported  |

### Antenna 1

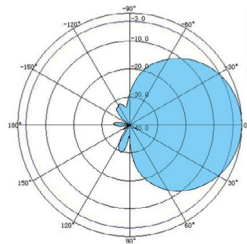
|                          |   |
|--------------------------|---|
| Frequency                | 865-868MHz /920-925MHz /902-928MHz        |
| Polarization Mode        | RHCP (Right-handed Circular Polarization) |
| Gain                     | 9dBi                                      |
| Horizontal Angle         | 60°                                       |
| Vertical Angle           | 55°                                       |
| VSWR                     | ≤13                                       |
| FBR                      | 17dB                                      |
| Characteristic Impedance | 50Ω                                       |
| Maximum Input Power      | 20w                                       |
| Lightning Protection     | DC Ground                                 |
| Antenna Port             | SMA Male                                  |

### Antenna 2

|                          |   |
|--------------------------|---|
| Frequency                | 865-868MHz /920-925MHz /902-928MHz        |
| Polarization Mode        | RHCP (Right-handed Circular Polarization) |
| Gain                     | 6dBi                                      |
| Horizontal Angle         | 105°                                      |
| Vertical Angle           | 95°                                       |
| VSWR                     | ≤1.3                                      |
| FBR                      | ≥20dB                                     |
| Characteristic Impedance | 50Ω                                       |
| Maximum Input Power      | 100w                                      |
| Lightning Protection     | DC Ground                                 |
| Antenna Port             | SMA Male                                  |



9dBi



6dBi

