



UR1A

Integrated RFID Reader

Chainway UR1A is a high-performance single-channel fixed RFID reader. Employing self-developed high-performance module based on Impinj E Series chips, and working together with integrated high-performance antenna, UR1A delivers outstanding UHF performance with the added benefits of Impinj Gen2X. 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) 130 x 130 x 60mm / 5.12 x 5.12 x 2.36in (6dBi)
Weight	2230g / 78.66oz (9dBi) 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	10/100 Base-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

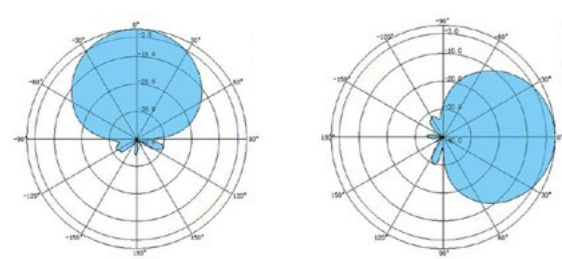
Engine	Based on Impinj E Series chips
Impinj Gen2X	Supported
Protocol	EPC global UHF Class 1 Gen 2 / ISO 18000-6C
Frequency	865-868MHz / 920-925MHz / 902-928MHz
Output Power	1W (30dBm, support +5~+30dBm adjustable) 2W Optional (33dBm, support +10~+33dBm adjustable, for Latin America, etc.)
Output Power Precision	+/- 1dB
Output Power Flatness	+/- 0.2dB
Receive Sensitivity	< -84dBm
Fastest Read Rate	1300+ tags/sec
RSSI	Supported
Ambient Temp Monitor	Supported

Antenna 1

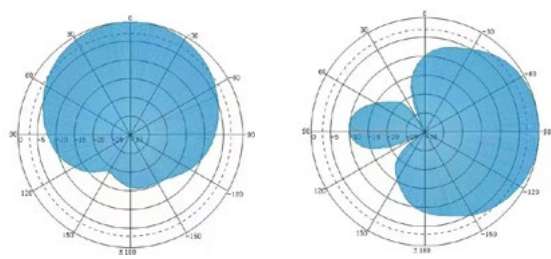
Frequency	865-868MHz / 920-925MHz / 902-928MHz
Polarization Mode	RHCP (Right-handed Circular Polarization)
Gain	9dBi
Horizontal Angle	60°
Vertical Angle	55°
VSWR	≤ 1.3
FBR	17dB
Characteristic Impedance	50Ω
Maximum Input Power	20w
Lightning Protection	DC Ground

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	20w
Lightning Protection	DC Ground



9dBi



6dBi

Notice: Product specifications are subject to change without prior notice. / Model: UR1A / Update Date: 2025-09-15

CHAINWAY®

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