Technology Solutions for Retail

UR1A

Integrated RFID Reader



The UR1A is a high-performance, single-channel fixed RFID reader. It uses a high-performance module based on the Impinj E710 chip and works together with a high-performance integrated antenna. The UR1A delivers outstanding UHF performance with the added benefits of Impinj Gen2X. The reader supports RS-232, RJ45 and GPIO communication interfaces. The UR1A is widely used in warehouse management, document management, library management, banking, production-line management and other fields.



GL Retail & Investments LLC
20801 Biscayne Blvd, Suite 403, Aventura, FL 33180, USA
Phone: +1 (786) 537-3615
david@glretail.us
www.glretail.us

Specifications

Physical Characteristics

Dimensions	270 x 270 x 77 mm / 10.63 x 10.63 x 3.03 in (9dBi) 130 x 130 x 60 mm / 5.12 x 5.12 x 2.36 in (6dBi)
Weight	2230 g / 78.66 oz (9dBi) 620 g / 21.87 oz (6dBi)
Material	Plastic + aluminum alloy
Input Voltage	DC 9V – 12V
Standby Current	< 30mA
Working Current	800mA +/-5% @ 12V DC input
Interfaces	RS-232, RJ45, GPIO
Baud Rate	115200bps
Cooling Mode	Air cooling
Baud Rate	115200 bps
Cooling Mode	Air cooling
Comm. Method	Ethernet 10/100 Base-T (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 specifications
Humidity	10%RH - 95%RH non-condensing

UHF RFID

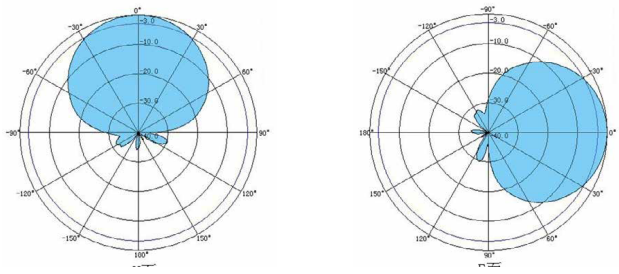
Engine	CM710-1, based on Impinj E710
Impinj Gen2X	Compatible
Protocol	EPC global UHF Class 1 Gen 2 / ISO 18000-6C
Frequency	865-868MHz / 920-925MHz / 902-928MHz
Output Power	1W (30dBm, adjustable +5~+30dBm) (PoE/DC)
	2W optional (33dBm, adjustable +10~+33dBm, for Latin America, etc.)
Output Power Accuracy	+/- 1dB
Output Power Flatness	+/- 0.2dB
Receive Sensitivity	< -84dBm
Peak Read Rate	950+ tags/sec
RSSI	Supported
Ambient Temp. Monitoring	Supported

Antenna (9 dBi model)

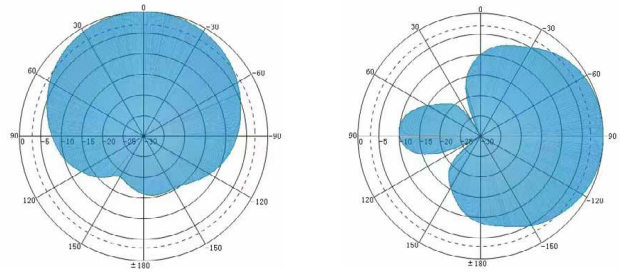
Frequency	865-868MHz / 920-925MHz / 902-928MHz
Polarization	RHCP (right-hand circular polarization)
Gain	9dBi
H Beamwidth	60°
V Beamwidth	55°
VSWR	≤ 1.3
FBR	17dB
Impedance	50Ω
Max. Input Power	20w
Lightning Protection	DC ground
Antenna Port	SMA male

Antenna (6 dBi model)

Frequency	865-868MHz / 920-925MHz / 902-928MHz
Polarization	RHCP (right-hand circular polarization)
Gain	6dBi
H Beamwidth	105°
V Beamwidth	95°
VSWR	≤ 1.3
FBR	20dB
Impedance	50Ω
Max. Input Power	20w
Lightning Protection	DC ground
Antenna Port	SMA male



9dbi



6dbi

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