

### UHF | RAIN - Stationary Reader Chainway - UR1A

- RAIN RFID (UHF EPC Class 1 Gen2 / ISO 18000-6C) compliant
- Reads up to 1300+ tags/sec
- Integrated antenna
- Adjustable RF power up to 30 dBm
- RS-232, RJ45, GPIO; supports PoE/PoE+



### UHF | RAIN - Stationary Reader Integrated RFID Reader

The Chainway UR1A is a high-performance integrated UHF RFID reader engineered for reliable, continuous operation in industrial and commercial environments. Built on the proven Impinj E-Series platform with Gen2X technology, it delivers fast and accurate tag identification with read rates exceeding 1,300 tags per second. Full support for EPC Class 1 Gen2 / ISO 18000-6C and global UHF frequency bands (EU, US, and other regions) ensures seamless worldwide deployment.

With its integrated circularly polarized antenna (6 dBi or 9 dBi), the UR1A offers stable and consistent read performance in space-constrained installations. The rugged IP65-rated housing protects the device against dust and water, while wide operating temperature support enables use in demanding industrial conditions. Power is supplied via DC or PoE/PoE+, allowing flexible and cost-efficient installation.

The UR1A supports RS-232, Ethernet (RJ45), and GPIO interfaces for easy integration into existing automation and IT infrastructures. It is an ideal solution for applications such as warehouse and inventory management, production line tracking, library and archive systems, and secure asset identification in banking and industrial environments.

#### Common Applications

- Warehouse and inventory automation
- Archives and document tracking
- Library RFID systems
- Production line and WIP tracking

**CHAINWAY**  
Powering Intelligence at the Source



TECHNICAL SPECIFICATIONS

Physical Characteristics

Dimensions	270 x 270 x 77mm (9dBi) 130 x 130 x 60mm (6dBi)
Weight	2230g (9dBi) 620g (6dBi)
Material	Plastic + Aluminum Alloy
Input Voltage	DC 9V – 12V
Power Supply	DC (12V), POE (802.3af 13W), POE+ (802.3at 25.5W)
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)

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	+/- 1 dB
Output Power Flatness	+/- 0.2 dB
Receive Sensitivity	< -84 dBm
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	20 W
Lightning Protection	DC Ground

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User Environment

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