IDCR@FT
RFID & NFC EXPERTS

UHF | RAIN - Stationary Reader
CHAINWAY - UR8

- EPC Class 1 Gen2 / ISO 18000-6C compliant
- Adjustable RF output power up to 30 dBm (33 dBm optional)
- Supports up to 8 external UHF antennas
- Ethernet and RS-232 communication interfaces
- Designed for indoor and outdoor deployments

UHF | RAIN - Stationary Reader
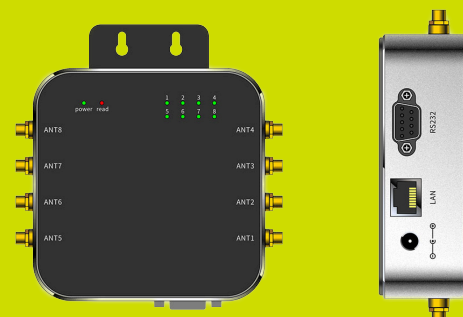## Reliable Fixed UHF RFID Performance

The Chainway UR8 is a compact, high-performance fixed UHF RFID reader designed for stable operation in industrial and commercial environments. Powered by Impinj E Series chips, it delivers reliable tag reading performance with strong resistance to electromagnetic interference and efficient heat dissipation.

Supporting up to eight external antennas and adjustable RF output power, the UR8 enables flexible deployment across complex RFID installations. Ethernet and RS-232 interfaces ensure straightforward system integration, while its robust aluminum housing supports long-term operation in indoor and outdoor environments with strict RFID performance requirements.

Common Applications

- Warehouse and logistics management
- Archive and library management
- Retail inventory tracking
- Laundry and linen tracking
- Production line management

CHAINWAY

TECHNICAL SPECIFICATIONS

Physical Characteristics

Dimensions	102.8 mm(L) x 102.8 mm(W) x 34.2 mm(H)
Weight	450 g / 15.87 oz. (without antenna)
Material	Aluminium alloy
Input Voltage	DC 9V – 12V
Standby Current	< 30mA
Work Current	800mA +/-5% @ DC 12V Input
Comm Interface	RS-232 / RJ45
Baud Rate	115200 bps
Cooling Mode	Air cooling
Ethernet interface	10/100 Base-T Ethernet (RJ45)

User Environment

Operating Temp	-13oF to 149oF / -25 °C to 65 °C
Storage Temp.	-40oF to 185oF / -40 °C to 85 °C
Humidity	5% RH to 95% RH (non condensing)

UHF

Engine	Based on Impinj E Series chips
Protocol	EPC global UHF Class 1 Gen 2 / ISO 18000-6C
Frequency	865-868 MHz / 920-925 MHz / 902-928 MHz
Output Power	1W (30dBm, support +5~+30dBm adjustable)
	2W Optional (33dBm, support +10~+33dBm adjustable)
Output Power Precision	+/- 1dB
Output Power Flatness	+/- 0.2dB
Receive Sensitivity	< -78dBm
Fastest Read Rate	550+ tags/sec
RSSI	Supported
Ambient Temp Monitor	Supported
Antenna Detector	Supported
Antenna	Supporting a variety of antennas, such as 6dBic, 9dBic
Antenna Port	8 channel 50Ω SMA port