

UHF | RAIN - Stationary Reader **CHAINWAY - URA4**

- Supports EPC C1 Gen2 / ISO 18000-6C
- Reading up to 1300+ tags/sec
- RS-232, RJ45, USB, HDMI, GPIO
- POE and DC power supply supported
- Integrated Impinj E Series chipset with Gen2X support



UHF | RAIN - Stationary Reader High-Performance for Industrial Applications

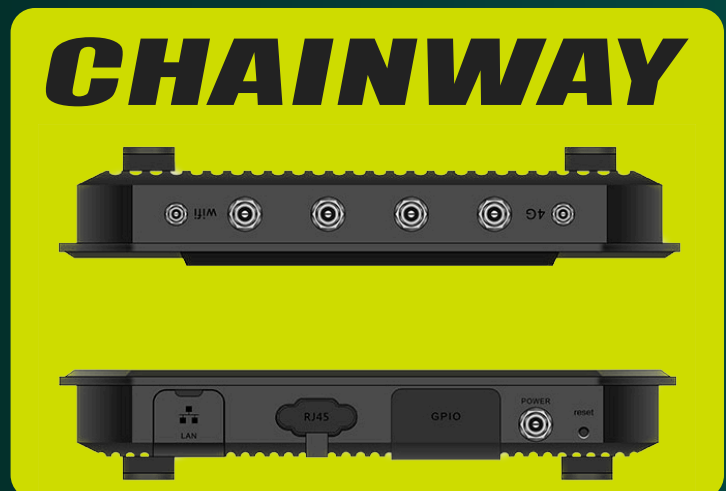
The Chainway URA4 is a fixed, 4-channel UHF RFID reader designed for demanding industrial and enterprise environments. Built on Android 9 and powered by Impinj E Series chips with Gen2X support, it delivers high read accuracy, fast tag processing and stable long-term operation.

The reader supports multiple communication interfaces including Ethernet, serial, USB, HDMI and GPIO, enabling flexible system integration. With adjustable RF output power, multi-antenna support and advanced monitoring features, the URA4 is suitable for complex RFID deployments requiring high throughput and reliability.

Its robust aluminum housing, wide operating temperature range and support for POE and DC power make the URA4 ideal for continuous operation in industrial and logistics environments.

Common Applications

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



TECHNICAL SPECIFICATIONS

Physical Characteristics

Dimension	214 (L) x 148 (W) x 30 (H) mm
Weight	1000g / 35.27 oz. (without antenna)
Material	Aluminium alloy
Input Voltage	DC 10V – 24V
Standby Current	< 30mA
Work Current	1300mA +/-5% @ DC 12V Input
Expansion Slot	1 slot for Nano SIM card, 1 slot for TF card
Comm Interface	1*RS-232 , 1*RJ45, 3*USB2.0 Type A, 1*Type C, USB Host
Display Interface	HDMI Type A, support 720P
GPIO	4 Input Optical-couplings, 4 Output Optical-couplings, isolation
Baud Rate	115200 bps
Cooling Mode	Air cooling
Power	DC (12V), POE (802.3af 13W), POE+ (802.3at 25.5W)

Performance

CPU	Octa-core 1.8 GHz
RAM+ROM	3GB + 32GB 2GB + 16GB (optional)

User Environment

Operating Temp	-25 °C to 65 °C
Storage Temp.	-40 °C to 85 °C
Humidity	10% - 95%

UHF

Engine	Based on Impinj E Series chips
Impinj Gen2X	Supported
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, POE/DC power)
	2W Optional (33dBm, support +10~+33dBm adjustable, POE+/DC power, 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 Detector	Supported
Antenna	Supporting a variety of antennas, such as 6dBic, 9dBic
Antenna Port	4 channel 50Ω TNC port

Developing Environment

Operating System	Android 9
SDK	Chainway Software Development Kit
Language	Java
Tool	Eclipse/Android Studio

TECHNICAL SPECIFICATIONS

Communication

Ethernet interface	10/100 Base-T Ethernet (RJ45)
WLAN	Support 802.11 a/b/g/n/ac/d/e/h/i/k/r/v, 2.4G/5G dual-band, IPV4,IPV6;
	Fast roaming: PMKID caching, 802.11r, OKC;
	Operating Channels: 2.4G(channel 1~13), 5G(channel 36,40,44,48,52,56,60,64,100,104, 108,112,116,120,124,128,132,136,140,149,153, 157,161,165), Depends on local regulations;
	Security and Encryption: WEP, WPA/WPA2-PSK(TKIP and AES),WAPI-PSK—EAP- TTLS,EAP-TLS, PEAP-MSCHAPv2, PEAP-LTS,PEAP-GTC,etc.
WWAN (Europe, Asia)	2G: B1/B5/B8
	3G: CDMA EVDO: BC0 TD-SCDMA: B34/B39 WCDMA: B1/B5/B8
	4G: TDD-LTE: B34/B38/B39/B40/B41 FDD-LTE: B1/B3/B5/B7/B8/B20
WWAN(America)	3G: B2/B4/B5
	4G: B2/B4/B5/B7/B12/B13/B17/B28a/B28b
Bluetooth	Bluetooth 4.2/4.1+HS/4.0/3.0+HS/2.1+EDR