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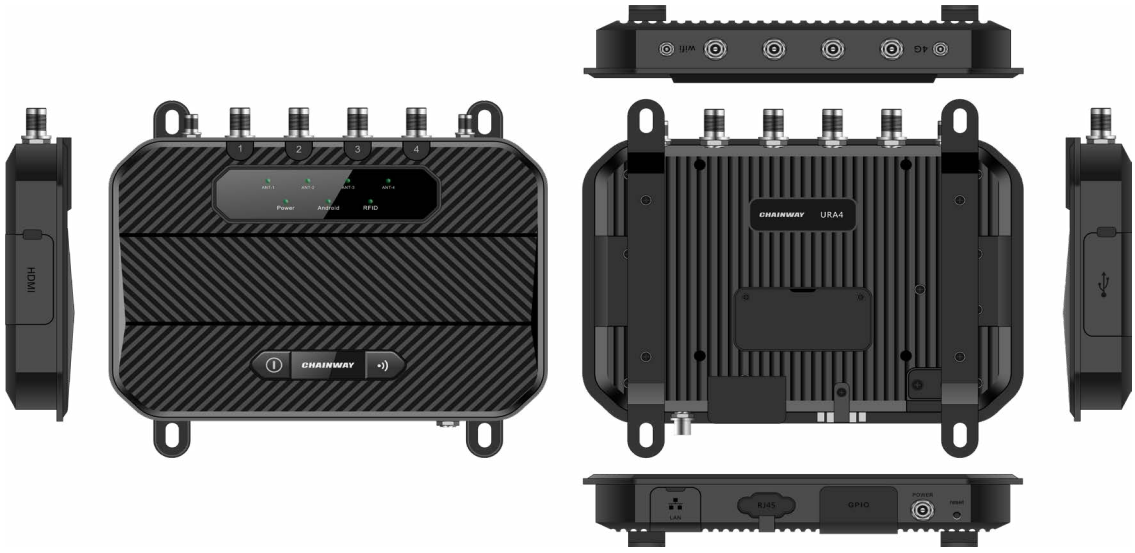
URA4

Fixed Android RFID Reader

Chainway URA4 is a 4-channel fixed RFID reader, based on Android 13 Integrated with Impinj E Series chips. With the added support of Impinj Gen2X, it delivers superior UHF performance. The reader supports RS232, RJ45 and HDMI, and can be compatible with various types of antennas. With high stability and outstanding performance, URA4 can be ideally applied to warehouse management, archives and library management, bank, clothing and footwear retail, jewelry monitoring, watch industry, laundry, production line management, medical instrument cabinet and vending machines.



Specification

Physical Characteristics

Dimensions	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 2.0 GHz
RAM+ROM	3GB + 32GB

Developing Environment

Operating System	Android 13
SDK	Chainway Software Development Kit
Language	Java
Tool	Eclipse/Android Studio

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) Default	2G: GSM/EDGE (MHz): 850/900/1800/1900
	3G: WCDMA: B1/B2/B4/B5/B8
	4G: TDD-LTE: B38/B40/B41 FDD-LTE: B1/B2/B3/B4/B5/B7/B8/B20/B28
WWAN(America)	4G: TDD-LTE: B41 FDD-LTE: B2/B4/B5/B7/B12/B13/B14/B17/B25/B26/B66/B71
Bluetooth	5.1

User Environment

Operating Temp.	-25 °C to 55 °C
Storage Temp.	-40 °C to 85 °C
Humidity	5% - 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

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