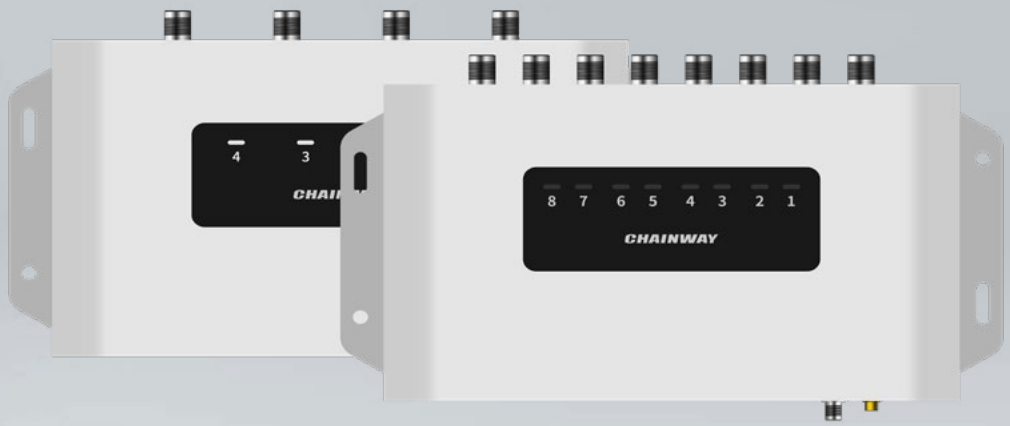
CHAINWAY®

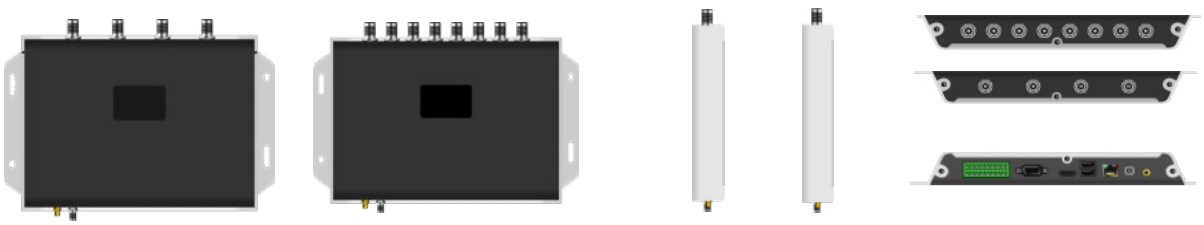
techsigno
SMART & GREEN



U300

Fixed RFID Reader (Android 11)

Chainway U300 is a newly launched high-performance fixed RFID reader. Adopting Android 11 operating system, 2.0GHz quad-core CPU, U300 possesses powerful data processing capabilities. Equipped with the Impinj E Series chips and supporting Impinj Gen2X, the reader has stronger UHF performance. The reader Integrates RS232, RJ45, HDMI and other interfaces, and supports DC, POE, POE+ power supplies. U300 can meet the application needs in complex environments such as warehousing, file management, library management, production line management, medical device cabinet, unmanned retail, etc.



Specification

Physical Characteristics

Dimensions	247 x 151 x 35mm / 9.72 x 5.94 x 1.38in
Weight	1000g / 35.27oz. (Host Only)
Material	Aluminium alloy
Input Voltage	DC 10V – 24V
Standby Current	< 140mA
Work Current	600mA +/-5% @ DC 24V Input
Comm Interface	1 x RS-232 , 1*RJ45, 1 x USB Host, 1 x USB Device
Display Interface	HDMI Type A, support 720P HD video output
GPIO	4 x input optocouplers, 4 x output optocouplers, with isolation
Baud Rate	115200 bps
Cooling Mode	Air cooling
Power	DC (24V), POE (802.3af 13W), POE+ (802.3at 25.5W)

Performance

CPU	Quad-core, 2.0GHz
RAM+ROM	2GB + 32GB

Developing Environment

Operating System	Android 11
SDK	Support Software Development Kit
Language	Java
Tool	Eclipse/Android Studio

Communication

Ethernet Interface	10/100 Base-T Ethernet (RJ45)
WLAN	IEEE802.11 b/g/n, 2.4G
Bluetooth	Bluetooth 4.0

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
Humidity	10% - 95%

RFID UHF

Engine	Based on Impinj E Series chips
Impinj Gen2X	Supported
Protocol	EPC global UHF Class 1 Gen 2 / ISO 18000-6C
Frequency	865-868 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, etc
Antenna Port	4 / 8 Channel 50Ω RF Connector RP-TNC Female

techsigno
SMART & GREEN
Address: Via dei Boschi, 2/13, 33040 Pradamano (UD), Italy
Tel. +39 0432 603604 email: sales@chainway-italy.com web: https:// www.chainway-italy.com