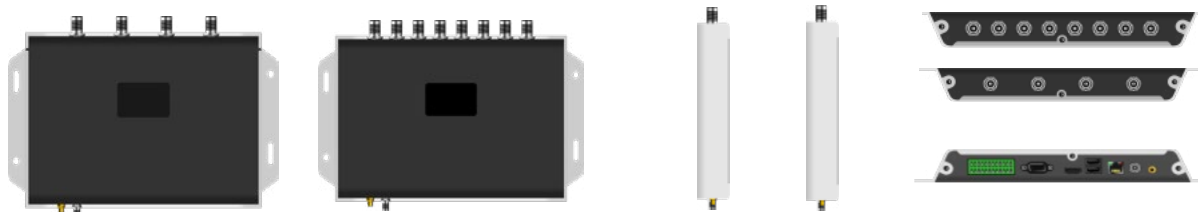


# U300

## 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

Notice: Product specifications are subject to change without prior notice. / Model: U300 / Update Date: 2025-12-18

**CHAINWAY**<sup>®</sup>

Shenzhen Chainway Information Technology Co., Ltd

Address: 9F, Building2, Phase 2, Gaoxinqi Industrial Park, Liuxian 1st Rd., Bao'an District, Shenzhen, Guangdong 518102, China

Tel: 0086-755-23223316

Fax: 0086-755-23223310

Email: sales@chainway.cn

Web: <http://www.chainway.net>