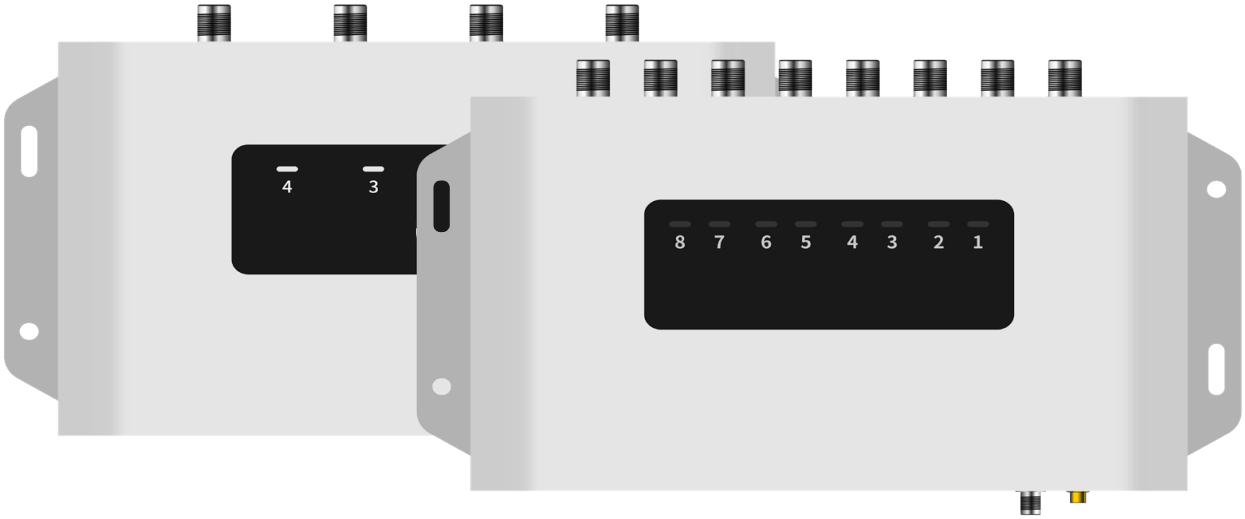
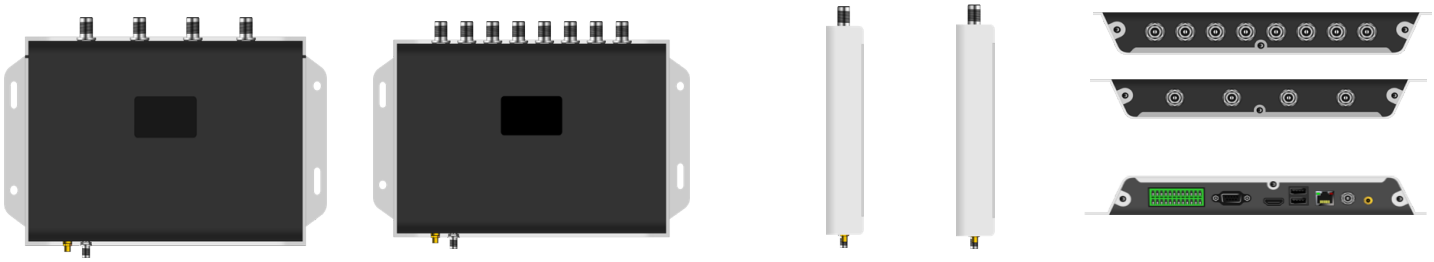
Technology Solutions for Retail

U300

Fixed RFID Reader (Android 11)



The U300 is a newly launched, high-performance fixed RFID reader. Running Android 11 on a 2.0 GHz quad-core CPU, the U300 offers powerful data processing capabilities. Based on the Impinj E710/R2000 chip, this reader delivers superior UHF performance. It integrates RS232, RJ45, HDMI and other interfaces, and supports DC, POE and POE+ power. The U300 meets the needs of applications in complex environments such as warehouse management, file management, library management, production line management, medical device cabinets, unmanned retail and more.



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Specifications

Physical Characteristics

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

Performance

CPU	Quad-core, 2.0GHz
RAM+ROM	2GB + 16GB

Development Environment

Operating System	Android 11
SDK	Software Development Kit Supported
Language	Java
Tools	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%

UHF RFID

Engine	Based on Impinj E710 / Impinj Indy R2000
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, adjustable from +5 to +30dBm, POE/DC)
	2W Optional (33dBm, adjustable from +10 to +33dBm, POE+/DC, for Latin America, etc.)
Output Power Accuracy	+/- 1dB
Output Power Flatness	+/- 0.2dB
Receive Sensitivity	< -84dBm
Fastest Read	950+ tags/sec
RSSI	Supported
Ambient Temp. Monitoring	Supported
Antenna Detection	Supported
Antenna	Compatible with a variety of antennas, such as 6dBic, 9dBic, etc.
Antenna Ports	4 / 8 Channel 50Ω RP-TNC female RF connector

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