



Integrated UHF RFID Reader

SKU:	RS-UR1A
Frequency:	UHF 860-960 MHz
Engine:	Based on Impinj E710
Protocol:	EPCglobal Class 1 Gen 2, ISO/IEC 18000-63
Interface:	RS-232, RJ45, GPIO
IP Rating:	IP67 per IEC sealing specifications
Fastest Read Rate:	950+ tags/sec

Powered by the Impinj® E710 chip, this compact integrated UHF RFID reader combines a built-in high-gain antenna with robust connectivity options including RS-232, RJ45, and GPIO. Its stable RF performance and plug-and-play setup make it a versatile solution for fixed applications such as logistics tracking, file and document management, and production line supervision. Designed for industrial or library environments, it offers reliable performance and seamless system integration.

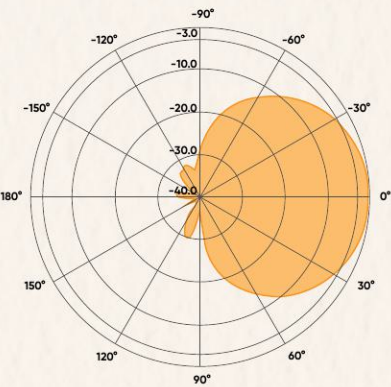
Physical Information	Dimensions	270×270×77mm / 10.63×10.63×3.03in
	Weight	2230g / 78.66oz
	Material	Plastic + Aluminum Alloy
	Input Voltage	DC 9V – 12V
	Standby Current	< 30mA
	Work Current	800mA +/-5% @ DC 12V Input
	Interface	RS-232, RJ45, GPIO
	Baud Rate	115200 bps
	Cooling Mode	Air cooling
	Communication Method	10/100 Base-T Ethernet (RJ45)
	IP Rating	IP67 per IEC sealing specifications

Technical Information	Engine	Based on Impinj E710
	Frequency	EU 865–868 MHz US 902–928 MHz JP 920–925 MHz
	Protocol	EPCglobal Class 1 Gen 2, ISO/IEC 18000–63
	Output Power	1W (30dBm, support +5 to +30 dBm adjustable) Optional 2W (33dBm, support +10~+33dBm adjustable, for Latin America, etc.)
	Output Power Precision	± 1 dB
	Output Power Flatness	± 0.2 dB
	Receive Sensitivity	<-84dBm
	Fastest Read Rate	950+ tags/sec
	RSSI	Supported
	Ambient Temp Monitor	Supported

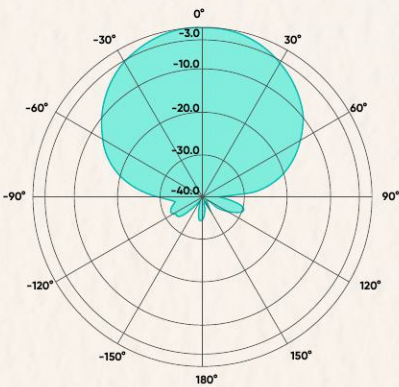
Antenna Information	Frequency	EU 865–868 MHz US 902–928 MHz JP 920–925 MHz
	Polarization Mode	RHCP (Right-handed Circular Polarization)
	Gain	9dBi
	Horizontal Angle	60°
	Vertical Angle	55°
	VSWR	≤ 1.3
	FBR	17dB
	Characteristic Impedance	50Ω
	Maximum Input Power	20w
	Lightning Protection	DC Ground
	Antenna Port	SMA Male

Additional Information	Operating Environment	-20 to +65°C, 10% to 95% RH, non-condensing
	Storage Environment	+18 to +28°C, 10% to 95% RH, non-condensing
	Industry	Logistics, Library, Retail, Banking, Education, Manufacturing, Transportation, Security
	Application	Warehouse management, Archives management, Library management, Banking, Production line management and other fields.

E-side



H-side



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