



HF&UHF Dual-Frequency RFID Reader



SKU:	RS-R1
Frequency:	HF 13.56MHz & UHF 860-960MHz
Engine:	Module based on Impinj E310
Protocol:	HF -ISO/IEC 14443A, ISO/IEC 14443B, ISO/IEC 15693, ISO/IEC 18000-3 mode 3/EPC class-1 HF, JIS X 6319-43 UHF -EPCglobal Class 1 Gen 2, ISO/IEC 18000-63
R/W Range:	HF -5cm UHF -15cm

This is a compact and dual-frequency desktop RFID reader that supports both UHF (860-960 MHz) and HF (13.56 MHz) protocols, making it highly adaptable for various commercial and industrial applications. With its advanced Impinj E310-based UHF module, dual PSAM card slots for secure transactions, and plug-and-play USB-C connectivity, the R1 ensures fast, accurate tag reading and reliable data exchange. It is widely used in scenarios such as access control and ID card issuance, asset and inventory management, retail checkout systems, library automation, anti-counterfeiting, and smart manufacturing. Compatible with Windows and Linux systems and backed by a developer-friendly SDK, the R1 is an ideal choice for businesses looking for a secure, high-performance RFID solution.

Physical Information	Dimensions	117×117×25mm / 4.6×4.6×0.98in
	Weight	170g / 6.0oz
	Interfaces	USB Type-C
	Cable	1.2m
	Notification	LED indicator, buzzer

Power Information	Input Voltage	DC3.5-5.25V
	UHF	5W@25dBm
	HF	2W
	Standby	0.4W

HF RFID	Frequency	13.56MHz
	Protocol	ISO/IEC 14443A, ISO/IEC 14443B, ISO/IEC 15693, ISO/IEC 18000-3 mode 3/EPC class-1 HF, JIS X 6319-4
	R/W Range	5cm

UHF RFID	Engine	Module based on Impinj E310
	Frequency	EU 865-868MHz / JP 920-925MHz / US 902-928MH
	Protocol	EPCglobal Class 1 Gen 2, ISO/IEC 18000-63
	Output Power	+2dBm to +25dBm adjustable Accuracy: +/- 1dB
	Antenna	Circular Polarized Antenna
	R/W Range	15cm

PSAM	Slot	1 slot
	Protocol	ISO 7816 T=0, T=1

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	Retail, Hospitality, Library, Healthcare, Logistics & Warehouse Management, Manufacturing
	Applications	Access control, Attendance, anti-counterfeiting, ID card issuance

● **Performance and Illustrations:** Graphs and visuals are for reference only; actual product performance may vary depending on usage and environment.
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