



RFID Ceiling-Mount Reader

SKU:	RS-T1C
Frequency:	UHF 840-960 MHz
Engine:	Based on Impinj® R2000
Protocol:	ISO/IEC 18000-6B/C, EPC Class 1 Gen 2
Read Range:	Up to 20 m(Reading), Up to 10 m(Writing)
Industry:	Apparel and Fashion, Catering, Healthcare, Industrial Applications, Laboratory, Retail, Events, Logistics
Application:	Access Control, Asset Tracking, Library, Warehouse

The ultra-high frequency RFID access control device adopts a sleek, ceiling-mounted design with integrated antennas. Its dual-sensing, multi-tag reading capability enhances performance, while the space-saving design allows for easy installation. The device also includes sound and light alarms to detect illegal tags, enabling automated and efficient management of item entry and exit.

This hardware device is widely applied in fields such as warehouse logistics, inventory management in clothing stores, and asset tracking for businesses. In warehouse settings, it can quickly scan and identify numerous tags, optimizing the flow of goods and improving operational efficiency.

Physical Information	Appearance Dimensions	27×600×390 mm
	Bracket Dimensions	110×120×110 mm
	Weight	4 kg
	Material	Aluminum profile frame, acrylic panel
	Installation Method	Bracket mounting

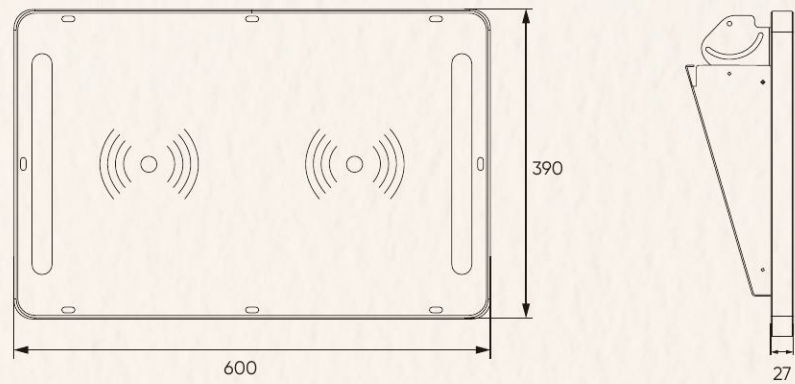
Technical Information	Operating Frequency	840~960 MHz
	Radio Frequency Protocol Standards	ISO/IEC 18000-6B/C, EPC Class 1 Gen 2
	Read Range	Up to 20 m(Reading), Up to 10 m(Writing)
	Power	20W(Output power 33 dBm)
	Voltage	DC 12V/5A
	Operating Mode	Fixed frequency/Frequency hopping(optional)
	Communication Interface	Ethernet communication, RJ45(WiFi optional)
	Baud Rates	9600, 19200, 115200(default), 460800 optional
	Built-in Antenna Polarization	Circular polarization
	Sound and Light Alarm	Built-in buzzer with red and green light strips
	Engine	Based on Impinj® R2000
	RF Output Power (Port)	33 dBm ± 1 dBm(MAX)
	Channel Occupancy Bandwidth	<200 KHz
	Frequency Stability	≤±20 ppm
	Output Power Adjustment	1 dB step
	Tag Recognition Speed	500 times/second
	Communication Protocols	TCP/IP
	Transport Protocol	CP, HTTP, MQTT
	Network Interface Communication Speed	10M/100M adaptive
	Data Storage Control Board	3,000 entries(standard)/70,000 entries
	Features	Supports high-density reading and writing, antenna standing wave detection, firmware online upgrades, tag data filtering, and RSSI(signal strength detection)

Development Information	Development Languages	JAVA, C#
	Secondary Development	SDK

Additional Information	Operating Environment	-20°C~+60°C, 5%~95% RH, non-condensing
	Storage Environment	+18°C~+28°C, 40%~60% RH, non-condensing

Packaging Information	Packing Format	Packed in paper carton
	Carton Dimension	25×38×45 cm
	Gross Weight	5.5 kg

Label Dimensions
(Unit: mm)



● **Performance and Illustrations:** Graphs and visuals are for reference only; actual product performance may vary depending on usage and environment. ● **Storage and Handling Guidelines:** Follow standard ESD-safe storage and handling procedures to maintain product integrity and avoid damage. ● **Product Updates and Revisions:** [rfidbridge.com](https://www.rfidbridge.com) may change products, specs, or services at any time without prior notice. ● **General Use Disclaimer:** Products are for general-purpose use and not intended for safety-critical or life-support applications. ● **Legal Notice:** Information is believed accurate but may change. [rfidbridge.com](https://www.rfidbridge.com) is not liable for use-related issues or outcomes.