

APC-R3S

Desktop RFID Reader

Smaller Size and Richer Interfaces to Support Broader Application Needs.



APC-R3S is our newly launched desktop UHF reader designed for close-range RFID data capture. It is built with the Impinj E-series protocol, enabling reading distances of up to 100 cm. With a proprietary high-efficiency anti-collision algorithm, delivers fast, stable performance while maintaining a high read rate. It supports multiple data interfaces, including Bluetooth, Type-C USB, and Ethernet, and works seamlessly with Android, iOS, and Windows devices. Typical applications include retail checkout, tablet-based POS, and jewelry or valuables management.



Compact design for flexible deployment

A compact, integrated design that combines the UHF module and antenna into a single unit, **mounted Scan button allows manual trigger-based reading** for more flexible operation. It fits perfectly in space-constrained environments such as desktops, counters, and service windows, and can also be embedded into self-checkout kiosks, loan/return terminals, and other all-in-one devices-delivering a "fits anywhere" deployment experience.

Versatile Interfaces for Easy Integration

USB provides true **plug-and-play** operation without an external power supply. RJ45 supports Ethernet communication and PoE+ power. A DC input is available to ensure stable power delivery when USB is insufficient or when external Bluetooth modules are used. **Multiple I/O options greatly enhance installation flexibility.**



USB Type-C



RJ45



DC input



Bluetooth 5.0

High-Performance, Low-Miss Reading Engine

Powered by the Impinj E-series and supporting the latest **Impinj Gen2X protocol**, offers excellent sensitivity and anti-collision performance. It can read **70+ tags** in a single session (5-second inventory), significantly improving efficiency for batch checkout and inventory tasks, even in dense tag environments.



天時科技有限公司
ACTION-PLUS CO., LTD
Tel : (852) 2803 0306
WhatsApp : (852) 9807 7382
Website: www.action-plus.com.hk

Dual Indicators for Instant Feedback

LED indicators and a built-in buzzer provide intuitive real-time feedback for read/write operations, helping users confirm status quickly and reducing errors caused by oversight.

Precise power control for reduced misreads

With a maximum read distance of approximately 100 cm and 30-level adjustable power settings, the allows fine-tuned control for different operational scenarios. This helps minimize stray reads and misreads, ensuring accurate and reliable results.



Strong compatibility with mainstream platforms

Fully compatible with Windows, Android, and iOS systems, the connects easily with mainstream terminal devices. SDKs are available to support application development and reduce integration effort and cost.

Specification

Physical Characteristics	Dimensions	255×235×18mm / 10.04×9.25×0.71in
	Weight	Approximately 650g / 22.93oz.
	Material	PC
	Port	Compact Version: 1 USB Type-C port Enhanced Version: 1 USB Type-C port + 1 DC power port PoE Version: 1 USB Type-C port + 1 DC power port + 1 RJ45 port
	Power Supply	USB power supply, DC power supply (input voltage DC +8V to +28V), Power over Ethernet (PoE+, IEEE 802.3at, 25.5W)
	Scan Button	1 Scan Button
	LED Indicators	1 Power indicator (ring around the inventory button) 1 Bluetooth indicator 1 Operation indicator Ethernet indicators: 1 green LED + 1 yellow LED (PoE Version)
	Audio	1 Buzzer
Data Communication	USB	USB 2.0 with a transmission rate of 12 Mbit/s
	Ethernet	10/100 Base-T Ethernet /PoE+ support
	Bluetooth	BLE 5.0
Environmental	Operating Temp.	-4°F to 122°F / -20 °C to 50°C
	Storage Temp.	-40°F to 158°F / -40°C to 70°C
	Humidity	5%RH-95%RH non condensing
	Sealing	Ingress Protection (IP) 54 rating
	Vibration	YD/T 1539-2019
	ESD	±15kV air discharge, ±8kV contact discharge



RFID	Engine	Based on Impinj E-Series chip
	Frequency	865-868MHz / 920-925MHz / 902-928MHz (custom-design for frequency band)
	Impinj Gen2X	Supported
	Protocol	EPC global Class 1 Gen 2 / ISO18000-63 RFID
	Transmit Power	1-30, step 1dB
	Antenna	Near-Field Antenna
	Fastest Read Rate	250+ tags/sec
	Multi-tag Inventory	Supports reading 70+ RFID tags at once (5 seconds)
	Max Read Range	>100cm (tag: Impinj M750 tag)
Developing Environment	SDK	Supports Android, iOS, and Windows systems
Accessories	Standard	1 USB data cable, 1 USB cable clip, 2 USB cable fixing screws, 1 DC power adapter (PoE Version and Enhanced Version)
	Optional	1 PoE power adapter (PoE Version)



天時科技有限公司
ACTION-PLUS CO., LTD
Tel : (852) 2803 0306
WhatsApp : (852) 9807 7382
Website: www.action-plus.com.hk