

iData Q3000

Extendable UHF RFID Sleds

Scalable and easily adapted to future needs

Q3000 is a flexible ultra-high frequency handheld terminal that can seamlessly integrate with mainstream operating system ecosystems such as Android and iOS through wireless Bluetooth connection. It also supports dedicated card holders and iData PDAs for stable and efficient plug and play, achieving deep integration and expansion of hardware functions and quickly expanding RFID capabilities. Q3000 is based on the IMPINJ Ex10 series chip and supports IMPINJ Gen2X, providing excellent ultra-high frequency data acquisition capabilities; High performance large memory processors provide faster data processing and storage capabilities, effectively meeting the needs of various application scenarios such as apparel retail, warehouse logistics, and financial management, etc.

Adaptive scalability that meets demand of any scenario

Design to scale for your unique needs, Q3000 not only supports rapid expansion of business functions, but also minimizes the need for modifications to existing equipment architecture, significantly reducing deployment costs and technical barriers. At the system level, Q3000 is fully compatible with iOS and Android, seamlessly integrating with existing mobile office ecosystems and easily expanding efficient RFID group reading and scanning capabilities for devices such as smartphones and tablets;

Powerful RFID module, optimized for efficiency

The device is based on the IMPINJ Ex10 series chip high-performance ultra-high frequency RFID module, which has excellent multi tag recognition capability and anti-interference performance. In practical applications, even in complex electromagnetic environments or high-density labeling scenarios, stable and reliable ultra-high frequency data transmission can be maintained, effectively ensuring the real-time and integrity of data acquisition;

High-performance features deliver exceptional results

The Q3000 adopts high-performance features, including processors, Bluetooth modules, and other configurations that have reached excellent levels. Ensure fast response and smooth operation during continuous scanning, batch data processing, and multitasking. Paired with excellent product industrial design, it can provide stable and efficient performance in various scenarios that require handling complex tasks and high-intensity work.



Retail store | Express logistics | E-commerce shipment | Warehouse Management

Q3000- Pogopin Technical Specifications

Device Parameters

Processor	Main frequency 1.1GHz, 64MB memory
Battery	6700mAh detachable battery Standby time>70 hours (Bluetooth connection status)
Indicator light	Bluetooth indicator light; Power indicator light; Mode indicator light; Status indicator light;
Buzzer	support
Button	Trigger button, power button, mode button, Bluetooth button
Communication interface	USB Type-C，PogoPin
Connectivity	Pogopin connection
Size (H * W * D)	174.2*79.7*160.6mm（for T1Pro） *Antenna width 97.1mm
Weight	551g（for T1Pro）

User environment

Operating Temperature	-20°C~50°C *For safety reasons, please do not charge in low temperature environments
Storage temperature	-40 °C~70 °C (excluding battery)
Humidity	10% to 90% (no condensation)
Tumbling testing	500 cycles (1,000 drops at 0.5 m)
Drop specification	Multiple 1.5-meter drops to concrete
Protection level	IP65
Electrostatic discharge	± 15kV air discharge; ± 8kV contact discharge
Certification	FCC, CE, SRRC

Accessories

Standard	Power adapter, USB cable, battery
Optional	Q3000 series charging base (communication interface is an add-on module)

RFID

RFID engine	IMPINJ Ex10 series chips
Air interface protocol	ISO18000-6C/EPC Class1 Gen2V2, support Gen2X
Frequency	920MHz~925MHz/902MHz~928MHz/865MHz~868MHz
Antenna	Circular polarized antenna
Scan Distance	Up to 30m (NXP UCODE9 white label, size 85 x 54mm) *The results obtained from outdoor open environment testing shall be subject to actual environmental testing
Batch mode storage	100000 tags

Barcode (optional)

Barcode support	Support one-dimensional/two-dimensional barcode scanning
Scanning accuracy	⩾3.33mil
Scanning angle	Pitch: ± 60 °; Skew: ± 60 °; Tilt: 360 °
Field of view angle	Level: 44.3 °; Vertical: 28.4 °; Diagonal angle: 51 °
Motion tolerance	1.92m/s

Development support

SDK	Supports Android/iOS
Dev languages	Java/Swift
Dev tools	Eclipse/Android Studio/Xcode

Q3000- BT Technical Specifications

Device Parameters

Type	Sled, Universal
Processor	Main frequency 1.1GHz, 64MB memory
Battery	6700mAh detachable battery Standby time>70 hours (Bluetooth connection status)
Indicator light	Bluetooth indicator light; Power indicator light; Mode indicator light; Status indicator light;
Buzzer	support
Button	Trigger button, power button, mode button, Bluetooth button
Communication interface	USB Type-C, Bluetooth 5.3
Connectivity	QR code scanning, Bluetooth, NFC
Size (H * W * D)	151.8*76.9*143.5mm（sled） *Antenna width 97.1mm
Weight	Sled: 520g Universal: 565g

User environment

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