



iData A500 RFID desktop reader/writer

Excellent performance and wide applicability

iData A500 plug and play desktop reader is exquisitely designed to fit into various working environments. A dedicated and efficient collision processing algorithm for electronic tags, it features stable performance and no cross reading. Support Impinj Gen2 standard enhanced protocol to improve reading performance in multi label or complex environments. Suitable for fast checkout statistics, bulk shipping, returns and exchanges in retail stores such as footwear and apparel. It can also be used for batch label initialization operations during product listing, inbound warehousing and outbound shipping, etc.

Excellent antenna design

The antenna has been specifically designed to ensure three-dimensional and no blind spot tag reading within the reading and writing range. Accurate control of RF energy, no cross reading at the device edge, and improved reading accuracy.

Diverse communication methods

The device integrates USB 2.0, RJ45 network port, Bluetooth BLE 5.2 communication interface, ensuring stable and reliable communication while flexibly responding to the interface requirements of different terminal devices and systems, achieving wide adaptability.

Diverse power supply methods

Supports USB drive-free power supply, network power supply (POE), and DC power supply modes, covering power supply conditions in different scenarios such as retail cash registers, warehouse workstation, and access control arrangements, achieving convenient installation in various scenarios.



Store cashier



Batch shipping and receiving



Return and exchange processing



Batch initialization

A500 Technical Specifications

System Configuration

Power	USB (5V/0.5A), DC(12V~24V), POE (802.3af 13W), POE+ (802.3at 25.5W)
Max. working current	0.5A (USB powered), 0.95A (POE or power adapter powered)
Standby current	0.1A
Prompt	Buzzer: Prompt when power on; Prompt when reading tags(can be configured) PWR: Power light (constant red when power on); Bluetooth light: Blue light on when connected; Blue light off when disconnected; Working prompt: Flashing green light when it is working
Communication interface	Type-C USB2.0, RJ45 Ethernet port (10/100M), Bluetooth 5.2
API support	Android, JAVA, C#(.NET), C++(VC)

Structure Parameters

Size (H * W * D)	320mm*320mm*28mm (L*W*H)
Weight	1KG
Colour	Black

Accessories

Standard	TYPE-C USB cable 1m
Optional	DC 12V 2A power adapter

UHF RFID

Communication protocol	EPC global C1Gen 2 (ISO 18000-6C)
Impinj Gen2X	support
Frequency	FCC 902MHz~928MHz (USA) CE 865MHz~867MHz (EU) CN 920MHz~925MHz (China) 860-960MHz (customizable)
Output power	0-27dBm, 1dBm adjustable (USB powered) 0-33dBm, 1dBm adjustable (powered by POE or power adapter)
Antenna	Near Field Antenna
Reading distance	0-50cm
Writing distance	0-20cm

Environmental Parameters

Working temperature	-25°C~+65°C
Storage temperature	-40°C~+85°C
Humidity	5%~95% (no condensation)
IP rating	IP65
Anti-static	Contact discharge \pm 4KV, air discharge \pm 8KV

The information of iData products and software service may be subject to change without notice. Please contact your iData sales representative for the latest details.



Official Website

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