

Intellex I-Beam™ 500 Reader

Intellex Corporation offers break-through performance with its best in class, standards-compliant RFID readers



The I-Beam 500 can read EPC-compliant passive C1G2 tags and next-generation battery-assisted Class 3 tags

The Intellex I-Beam™ 500 reader provides industry-leading range and read/write reliability for applications such as asset tracking, yard management, and nested supply chain. It can read EPC-compliant passive tags, as well as next-generation battery-assisted passive tags. The I-Beam 500 is based on Intellex's 3.2.1MultiProtocol™ capability which enables customers to future-proof their infrastructure by allowing interoperability with a wide variety of RFID tags.

The I-Beam 500's advanced design ensures exceptionally high read/write accuracy. It performs reliably in real world environments around liquids, metals, and other RF-unfriendly conditions, ensuring accurate readability of fully-loaded pallets and containers. The reader's proprietary software eliminates missed tag reads and its high sensitivity allows up to 50 meter read range. The I-Beam 500's flexible network connectivity and discovery enable easy integration into existing networks. The I-Beam 500's multi-session support allows multiple applications to share control over a single reader, eliminating the need for additional layers of network administration. In addition, it provides middleware complete flexibility to virtualize reader-to-application mapping.

The I-Beam 500's robust design withstands conditions in harsh environments such as warehouse and industrial areas. It can be configured with up to four antenna pairs and interfaces to the network using Ethernet and 802.11. The I-Beam 500 meets EPCglobal™ standards for Class 1 Gen 2 (C1G2) and is forward compatible to Class 2 and 3 tags.

FEATURES

Advanced Design

- High sensitivity receiver
- Adaptive signal processing and noise reduction
- Efficient scouring algorithms in TagHunter software
- Multiple session support

Standards Compliance

- Class 3 operation
- Backward compatible to EPCglobal C1G2 standards

Built-In Application-specific Security

- Native web capability
- Ethernet, 802.11
- GPIO ports

Network Capability

- Real-time asset visibility from any place in the world
- Remote reader management
- Easy integration into existing network
- Integrates external sensors and peripherals for intelligent control of assets (e.g. light stacks, PLCs)

BENEFITS

- Up to 50 m read range
- Exceptional read/write reliability in real world environments
- Enables more efficient tag search and access
- Supports multiple protocols (XML, LLRP, .NET and SLRRP) on different interface ports

- Global interoperability

- Allows selected access to tag memory (protects data integrity)

SPECIFICATIONS

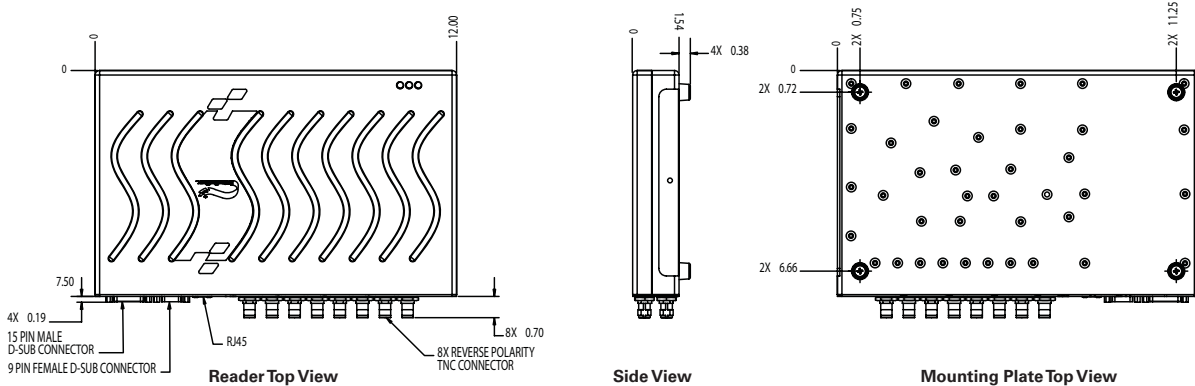
Physical Characteristics Dimensions Weight Visual Status Indicators	7.5" x 12" x 2.6" (includes mounting plate with four ¼" mounting holes) 3.6 lbs LEDs for power (green), activity (yellow) and software on (red)
Connectivity Network External Interfaces RF Connectors Antenna Ports Power Supply	10/100 BaseT Ethernet RJ45 Control I/O Port (4 input, 4 output ports) DB15 RS-232 Serial DB9 Reverse-TNC 4 transmit ports, 4 receive ports +24 VDC @ 1.5 amps
Environmental Temperature Operational Storage Humidity Vibration	IEC 60068-2-1/2/14 -4° to +131°F / -0° to +55°C -4° to +158°F / -20° to +70°C IEC 60068-30/78 5-95% non-condensing IEC 60068-2-6
Compliance Safety Regulatory	EMI/RF Emissions FCC Part 15C
Hardware/OS And F/W Management Operating System Firmware Upgrade Frequency Method Power Output Tag Protocol IP Addressing Host Interface Protocols	Linux (Version 2.4.2.1) Web-based and remote firmware upgrade capabilities UHF band, 902-928 MHz US Frequency Hopping Spread Spectrum (FHSS) 4W EIRP max EPC C1G2 (Read, Write), Class 3 (Read, Write) Static and dynamic XML, LLRP, .NET and SLRRP

Intellex reserves the right to change product information and specifications without notice.

ORDERING INFORMATION

Part Number	Description
IB500.US	I-Beam 500 RFID reader; United States 902-928 MHz frequency band
IB500.KR	I-Beam 500 RFID reader; Korea 910-914 MHz frequency band
IB500.IN	I-Beam 500 RFID reader; India 865-867 MHz frequency band

DIMENSIONS



Note: All dimensions are in inches (mm)

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