Omni ™

Heavy Duty Slot Reader for Barcodes and/or MagStripes

Reads MagStripes & Barcodes

The Omni reads up to 3 tracks of information with a single swipe in either direction. In combination, the same Omni unit can read both barcode and MagStripe media. It scans barcodes printed on paper, card stock, or plastic. An infrared option is available for security-based applications, where barcodes are over-printed to prevent duplication. The data outputs are TTL, RS232, keyboard wedge, USB-KB, USB-RS232, and Wiegand interfaces.
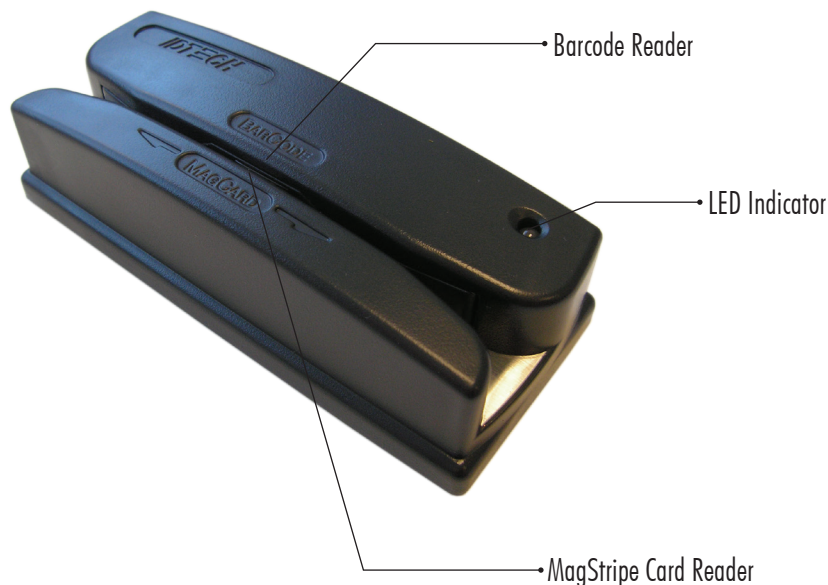
Edits and Formats Data

The Omni's output can be formatted with terminating characters, special preamble and/or postamble character strings, and special parsing to match the data format expected by the terminal. These settings are programmed into the reader and stored in non-volatile memory.

Stands Up to Heavy Use

The Omni reader is designed for demanding applications, such as for access control or in self-service kiosks. Its die-cast metal base, stainless steel wearplate, and impact-resistant housing make it ideal for stand-alone, high-volume applications. Its metal base can be securely mounted with screws, and cable exits are available at the side, end, or bottom of the unit. Weatherproof, sealed, or extended temperature versions are available for use in harsh environments.

Barcode Reader

LED Indicator

MagStripe Card Reader

Features and Benefits:

- **TTL, KB, RS232, USB-KB, USB-RS232 and Wiegand interfaces**

- **Reads most barcodes symbologies and/or MagStripe Data**

- **Superior reading of jitter, scratched, and worn MagStripe Cards**

- **Dual sided MagStripe head versions available**

- **Die-cast metal plate allows flexible mounting options**

- **Rugged weatherproof design with sealed or extended temperature options**

- **Reliable for a minimum of 1,000,000 passes**

- **Signifies successful reads with a beeper and LED indicator**

- **Data output can be programmed into needed format**

- **Reads up to 3 tracks of information**

- **Threaded inserts for easy and flexible mounting**

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Specifications WCR 32X7

Electrical

Power Requirements:
Bar Code:+5 VDC +/-10%, 35mA maximum
Magnetic Stripe:+5 VDC +/-10%, 30mA maximum
Hybrid:+5 VDC +/-10%, 65m maximum combined MagStripe and barcode

Interfaces:
TTL (TTL barcode and/or magnetics clock and data), keyboard wedge,
Standard SIA 26-bit Wiegand, RS232, USB-KB, USB-RS232

Environmental

Operating Temperature: 32° F to 131° F (0° C to 55° C)
Storage Temperature: -31° F to 158° F (-35° C to 70° C)
Humidity: Maximum 95% non-condensing, dry storage
Extended Temperature: -31° F to 140° F (-35° C to 60° C), without ice on magnetic head*
Weatherproof Temperature: -31°F to 140°F (-35°C to 60°C), barcode only*
Water Resistent: IP-53 Rating for sealed barcode reader version only
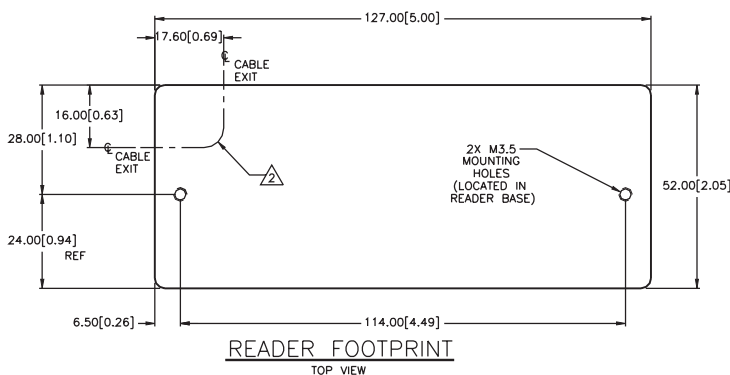*Minimum quantities apply; extended temperature option not available with barcode feature.

Reliability

Operating Life: 1,000,000 cycles minimum
Warranty: One year, parts and labor

Mechanical

Dimensions(L) x(W) x(H): 5 inches (127 mm) x 2.05 inches (52 mm) x 1.38 inches (35 mm)
Media Thickness:
Bar Code: 0.005 inches (0.127 mm) to 0.050 inches (1.27 mm)
Magnetic Stripe: 0.015 inches (0.381 mm) to 0.050 inches (1.27 mm)
Media Formats:
Bar Code: UPC-A, UPC-E, EAN-8, EAN-13, Code 39, Telepen, Interleaved 2 of 5,
Industrial 2 of 5, Code 128, MSI/Plessey, Codabar
Magnetic Stripe: ISO 7811, AAMVA, and other F2F formats
Slot Width: 0.054 inches (1.37 mm)
Swipe Speed:
Bar Code: 5 to 65 inches per second, bidirectional**
Magnetic Stripe: 3 to 60 inches per second, bidirectional
Weight: 1.4 lb. (including power pack)
Cable Length: 6-foot straight cable
Cable Connector:
TTL- 9 pin squeeze, Keyboard - 6 pin mini DIN, RS232 - DE9F,
TTL Mag/Bar Code Combo Readers-stripped and tinned leads
Barcode Source Light: Visible red 660nm or Infrared 930nm
Barcode PCS: 60% minimum
Barcode Centerline Length: 0.49 inches (12.50 mm) from bottom of slot to reading window center
Barcode Resolution Distance: 0.006 inches minimum
**Media velocity can vary depending on barcode density and quality

Footprint:

READER FOOTPRINT
TOP VIEW

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