



MZ320 Series

Motorized Card Readers



The MZ320 Series motorized desktop reader reads magnetic stripe data from financial cards and driver licenses as well as provides ISO 7816 and EMV Level 1 support for communicating with T=0 and T=1 smart cards. Support for many popular memory cards is also provided.

The reader communicates with a host via an RS-232 serial interface and uses a proprietary MCP protocol and command set. Windows drivers for the MCP protocol are available and can support most Windows operating systems.

Transaction

Magnetic and Smart Card Support

- Reads up to three tracks of ISO compatible magnetic card data
- Delivers the highest read accuracy and reliability in the industry
- EMV 4.0 Level 1 approved
- Supports ISO 7816-3 T=0 and T=1 microprocessor cards and popular memory cards

Optional Contactless Smart Card Support

- Contactless MIFARE, MasterCard PayPass, Visa payWave, and American Express Expresspay interfaces
- Full ISO 14443 Type A and B support

Standard Features

- Motorized transport
- RS-232 and USB interfaces
- Flash upgradable
- Onboard SAM (Security Authentication Module)
- Optional external SAM port for adding up to six external SAMs
- Front card gate prevents coins, dust, moisture, and debris from entering the unit
- Power failure card ejection system (requires optional external capacitor)
- Test LED
- External bezel LED



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Technical Data

Mag-Stripe Functions	<ul style="list-style-type: none"> • ISO 7810, ISO 7811, AAMVA, CDL, JIS functions • JIS X 6302 Type 2
Smart Card Functions	<ul style="list-style-type: none"> • ISO 7816 T=0 and T=1 protocols • Supports many popular memory cards • EMVCo Level 1 approved • Optional ISO 14443 Type A and B
Card Speed	<ul style="list-style-type: none"> • 10 inches per second (25.4 cm/s)
Recording Method	<ul style="list-style-type: none"> • Two-frequency coherent phase (F2F)
MTBF	<ul style="list-style-type: none"> • Electronics: 125,000 hours • Head: 1,000,000 passes (500,000 insertion cycles) • SC contacts: 1,000,000 passes
Interfaces	<ul style="list-style-type: none"> • RS-232 and USB
Input Voltage	<ul style="list-style-type: none"> • 12 V DC $\pm 5\%$
Current	<ul style="list-style-type: none"> • 1.5 A max • 170 mA typical (with motor off) • Optional auxiliary capacitor for card ejection in case of power failure (recommended capacitor value of 68,000 μF, rated at 16 V)
Dimensions (L x W x H)	<ul style="list-style-type: none"> • A bezel: 5.85 x 3.26 x 2.17 in (148.59 x 82.91 x 55.12 mm) (includes flex cable connector overhang) • B or C bezels: 6.83 x 3.26 x 2.17 in (173.48 x 82.91 x 55.12 mm) • D bezel: 6.26 x 4.00 x 2.17 in (159 x 101.6 x 55.12 mm) • Data cable length: 6 ± 0.1 ft (1.83 ± 0.03 m) • Adapter cable length: 6.25 ft (1.91 m)
Temperature	<ul style="list-style-type: none"> • Operating: 32 °F to 122 °F (0 °C to 50 °C) • Storage: -40 °F to 158 °F (-10 °C to 70 °C)
Humidity	<ul style="list-style-type: none"> • Operating: 10% to 90% noncondensing • Storage: 10% to 90% noncondensing

Readers

CardLogix P/N	Smart Contact	Smart Contactless	Magnetic Stripe	SAM	Bezel
8300167	Yes	Optional	Yes	Yes	Flat
8300168	Yes	Optional	Yes	Yes	Lipped

Accessories

CardLogix P/N	Description
8300169	Contactless add-in board
8300170	Contactless add-in board ribbon cable
8300163	Mini-B to A USB cable harness, black
8300164	RS-232 (DB9) cable harness, grey
8300165	Power supply
8300166	Power cord for North American applications