



Reader Interface Module eMAX-MR50

Features

- 2 programmable inputs; 2 programmable relay outputs
- Multi-facility code support
- Multi-reader technology support
- AES 128 bit data encryption
- HSPD-12/FIPS201 Compliant
- UL 294 Recognized
- Universal I/O device characterization

Benefits

- Provides all I/O needed for single door control
- Easily connect to Mercury's EP intelligent controllers
- Small size versatility

The Maxxess eMAX-MR50 is a low cost, high performance single card reader interface panel. This easy to install board is capable of providing all of the I/O needed for controlling a single door. The eMAX-MR50 has a compact footprint, is RS-485 connected and can be clustered or distributed to best suit the installation environment. Reader technologies that are supported include Wiegand, clock and data, magnetic stripe, keypads and biometrics. Integrated keypad readers are also supported

The eMAX-MR50 is capable of handling elaborate processes and procedures, such as relating selected system devices and the activity they generate to other devices in the system, and then allowing actions and activities to transpire without host intervention. When not connected to an intelligent system controller, the eMAX-MR50 can locally process access requests based on facility code verification.

Each eMAX-MR50 will interface one card reader, two general purpose input monitor points and two control relays to provide access control and security monitoring through an eMAX-EP intelligent controller.

Hardware interface and card format settings are loaded through software commands.

The inputs and the relays may be assigned to door-related functions or to general purpose I/O. The inputs support normally open, normally closed, supervised and non-supervised circuits. The End-of-Line (EOL) resistance values are configurable. The relays can be configured for fail safe or fail secure operation.

Application Notes

The eMAX-MR50 is a versatile, reliable interface component for a single door. When connected to a Maxxess eMAX-EP system controller, the eMAX-MR50 passes access request and status change information to the intelligent controller for processing.

Data and activities from selected system devices pass to other devices in the network, generating actions and activities as they transpire, independent of the host computer. Even when not connected to an intelligent controller, the eMAX-MR50 is capable of locally processing access requests based on facility code verification. Up to eight facility codes may be active in each eMAX-MR50.

**Proven Platforms
for the Future**
Reliable. Proven. Innovative
Access Control.

Reader Interface Module eMAX-MR50

Technical Specifications

Electrical

Primary Power:

12-24 Vdc +/- 10%, 150mA maximum
 12Vdc @ 300mA nominal
 24Vdc @ 220mA nominal

Communication:

RS-485, 2-wire, 4,000'
 (twisted pair with shield, Belden 9841)

Reader Port: 1 Reader Port

Power:

Input voltage pass-through
 Data Card/Keypad
 Clock/Data, Data-1/
 Data-0, or RS-485

LED:

Two-wire, or one-wire bi-color LED support

Buzzer:

Only with 'one-wire' LED

Inputs:

2 General purpose: programmable circuit type
 1 Dedicated: Tamper

Outputs Relay:

Relay 1 : Form-C, 5 Amp 28 VDC
 Relay 2 : Form-C, 1 Amp 28 VDC

Dimensions:

2.75" L x 4.25" W x 1.0" H,
 (70mm L x 108mm W x 25.4mm H)

Temperature:

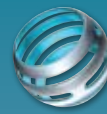
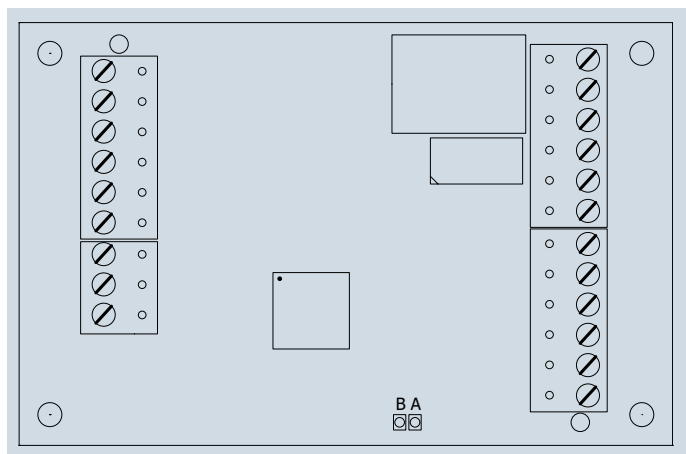
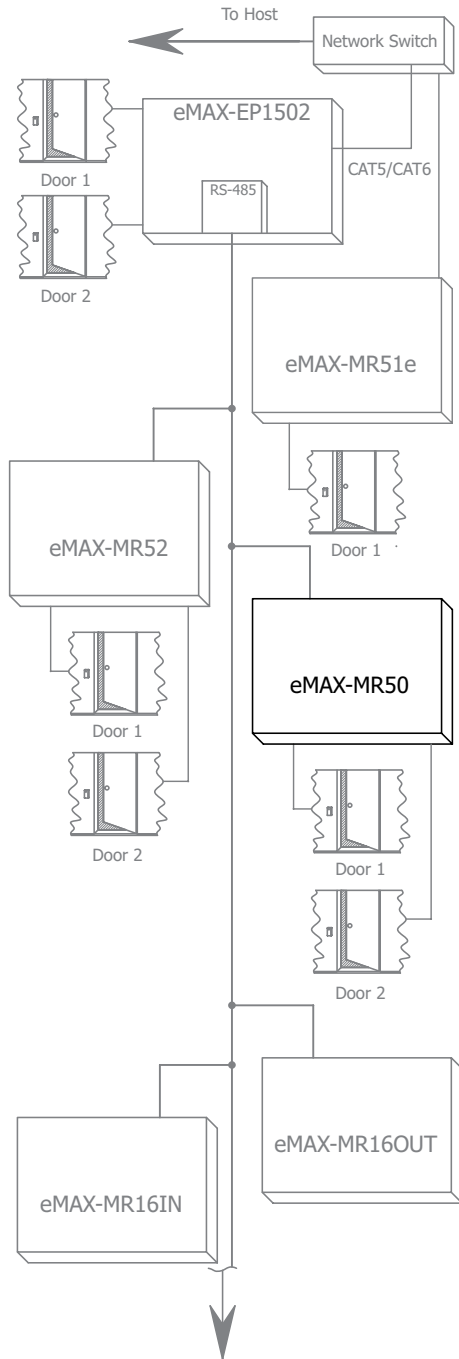
-40-75°C operational,
 -55-85°C storage

Humidity:

0-95% RHNC

Standards:

UL294 Recognized, CE Compliant, ROHS,



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