



# Reader Interface Module eMAX-MR52

## Features

- *Multi-facility code support*
- *Multi-reader technology support*
- *AES 128 bit data encryption*
- *Configurable auxiliary point control and monitoring*
- *HSPD-12/FIPS201 Compliant*
- *UL 294 Recognized*
- *Universal I/O device characterization*

## Benefits

- *Affordable flexibility to add 2 doors*
- *Supports external OEM network connectivity*
- *Reliably support a wide variety of sensors and control technologies*
- *Easy to install*

The Maxxess eMAX-MR52 is a dual card reader interface panel with outboard flexibility to connect a Maxxess intelligent system controller to a system network. A low cost, high-performance device that is easy to install, the eMAX-MR52 provides all the I/O needed for controlling two doors with auxiliary point control and monitoring. Each unit will interface 2 card readers, 8 general purpose input monitor points and 6 control relays to a Maxxess eMAX-EP series intelligent controller.

With two-wire RS-485 connectivity, the eMAX-MR52 two reader ports support magnetic stripe, Wiegand and RS-485 readers. Keypads and integrated keypad readers are also supported. 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-MR52 is a versatile and reliable component for two doors. When connected to a Maxxess eMAX-EP intelligent system controller, the eMAX-MR52 passes access requests and status change information to the controller, processing data and activities from selected system devices to other devices in the network. It generates actions and activities as they transpire independent of the host computer.

Even when not connected to an intelligent controller, the eMAX-MR52 is capable of locally processing access requests based on facility code verification. Several facility codes may be active in each MR52.

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

# Reader Interface Module eMAX-MR51e

## Technical Specifications

### Primary Power:

12-24 Vdc +/- 10%, 550mA maximum  
 12Vdc @ 300mA nominal  
 24Vdc @ 220mA nominal

### Communication:

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

**Reader Ports:** 2 Reader ports

### Power:

12 Vdc regulated, 125mA each reader  
 Data Card/Keypad  
 Clock/Data, Data-1/  
 Data-0, or RS-485

### Keypad:

8-bit Mercury, 8-bit Dorado, 4-bit HID

### LED:

One-wire bi-color LED support, or two-wire

### Buzzer:

Only with 'one-wire' LED

### Inputs:

8 General purpose: programmable circuit type  
 2 Dedicated: Tamper and Power Monitor

### Outputs:

6 Relays : Form-C, 5 Amp 28 VDC

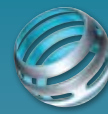
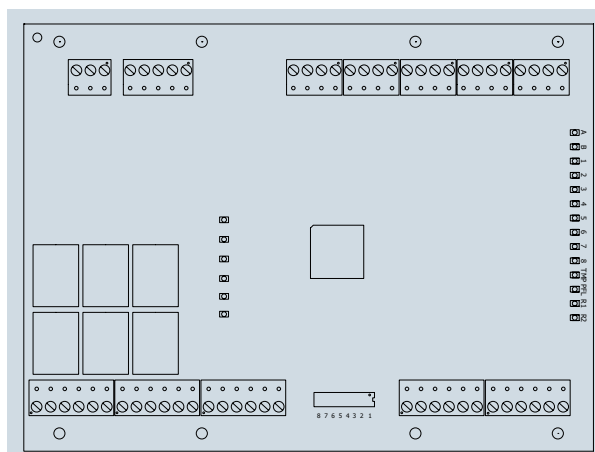
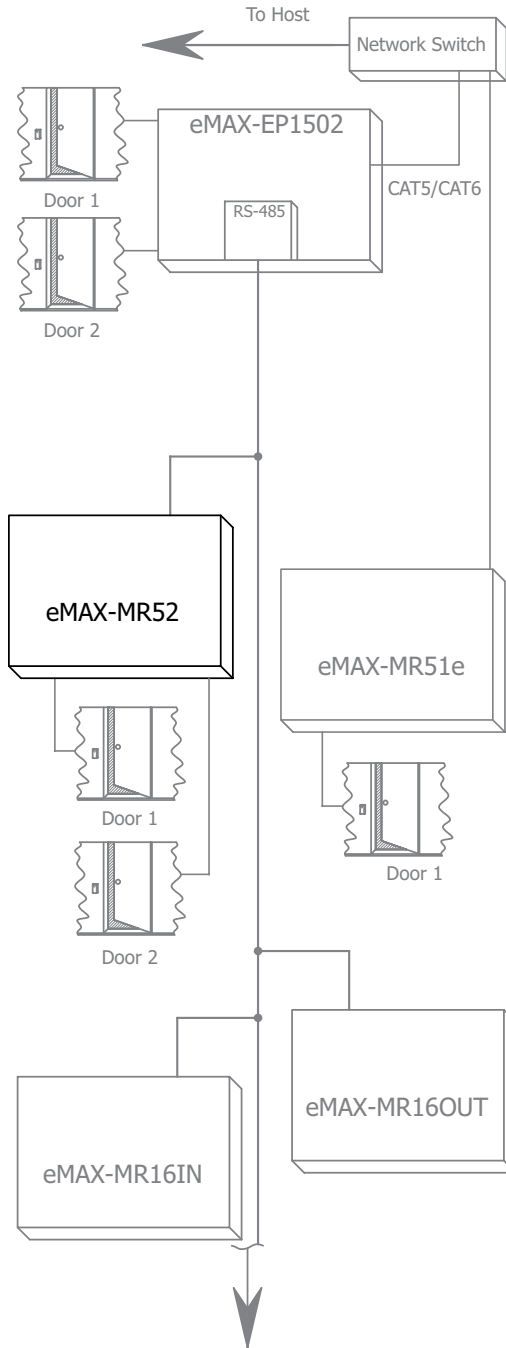
### Dimensions:

6.0' W x 8.0' L x 1.0' H,  
 (152mm W x 203mm L x 25mm H)

**Temperature:** 0-70°C operational,  
 -55-85°C storage

**Humidity:** 0-95% RHNC

**Standards:** UL294 Recognized, CE Compliant,  
 ROHS,



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