

# Reader Interface Module eMAX-MR51e

## Features

- *Multi-facility code support*
- *Multi-reader technology support*
- *POE enabled*
- *Auto-addressable*
- *AES 128 bit data encryption*
- *HSPD-12/FIPS201 Compliant*
- *UL 294 Recognized*
- *Universal I/O device characterization*
- *OSDP*

## Benefits

- *Flexible, versatile support of paired readers*
- *Network ready*
- *Easily installed, applied to a wide range of reader technologies*

The **MAXXESS eMAX-MR51e** is an ideal integration solution when a direct network connection to only one door (Read IN and Read OUT) or two doors (Read IN and REX OUT) is required. The eMAX-MR51e is an IP-based, network ready interface panel that is low cost and high-performing. The unit is easy to install and provides the I/O needed for controlling one or two doors with power over Ethernet for complete door functionality.

Two reader ports support separate in/out readers of all technologies, including Wiegand, clock and data, magnetic stripe, keypads, LCD and biometrics.

Auto-addressable and directly managed by MAXXESS intelligent system controllers, the eMAX-MR51e is capable of controlling elaborate processes and procedures without host intervention. For example, the unit can relate the activities of selected system devices to other devices within the system, generating actions and allowing activities to transpire independent of the host.

### Application Notes

The eMAX-MR51e has 4 inputs and 2 outputs. It can relate the activities of selected system devices to other devices within the system, generating actions and allowing activities to transpire independent of the host. The eMAX-MR51e support of paired readers mitigates installation challenges, such as placing readers at varying heights or distances to accommodate ingress and egress of handicapped, vehicle and/or foot traffic.

These readers can be logically linked together, yet function independently when access identification is presented to either one. When access rights are granted the same relay will function as programmed to unlock the opening.

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

# Reader Interface Module eMAX-MR51e

## Technical Specifications

The interface is for use in low voltage, class 2 circuits only.

**Power Input:**

PoE Power Input 12.95W, compliant to IEEE 802.3af – OR --10 – 14Vdc Power Supply

**Power Output:**

12Vdc @ 700mA including reader and AUX output  
 Output: Form-C contacts: K1, K2: 5A @ 28Vdc  
 Inputs: 4 supervised, End of Line resistors, 1k/1k - ohm, 1% 1/4W watt standard

**Reader Interface:**

**Reader**

**Power:** 12 Vdc±10% or pass through. (PTC limited 150mA max)

**Reader**

**LED Output:** TTL compatible, high > 3V, low < 0.5V, 5mA source/sink maximum

**Buzzer Output:** Open collector, 5Vdc open circuit maximum, 10mA sink maximum  
 Reader

**Data Inputs:** TTL compatible inputs or 2-wire RS-485

**Communication:**

Ethernet, 10Base-T/100Base-TX

**Cable Requirements:**

**Power:** 18AWG, 1 twisted pair

**RS-485:** 24AWG, 120-ohm impedance, twisted pair with shield, 4000-foot (1,219 m) maximum

**Alarm Inputs:** 1 twisted pair per input, 30-ohm maximum

**Reader data**

**(TTL):** 18AWG, 6 conductors, 500-foot (150 m) maximum

**Reader data**

**(RS-485):** 24AWG, 120-ohm impedance, twisted pair with shield, 4000-foot (1,219 m) maximum

**Mechanical:**

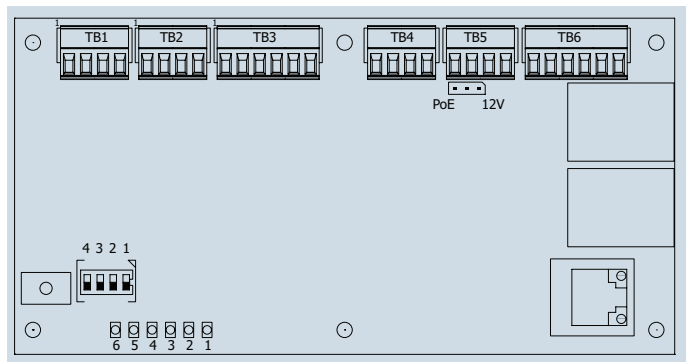
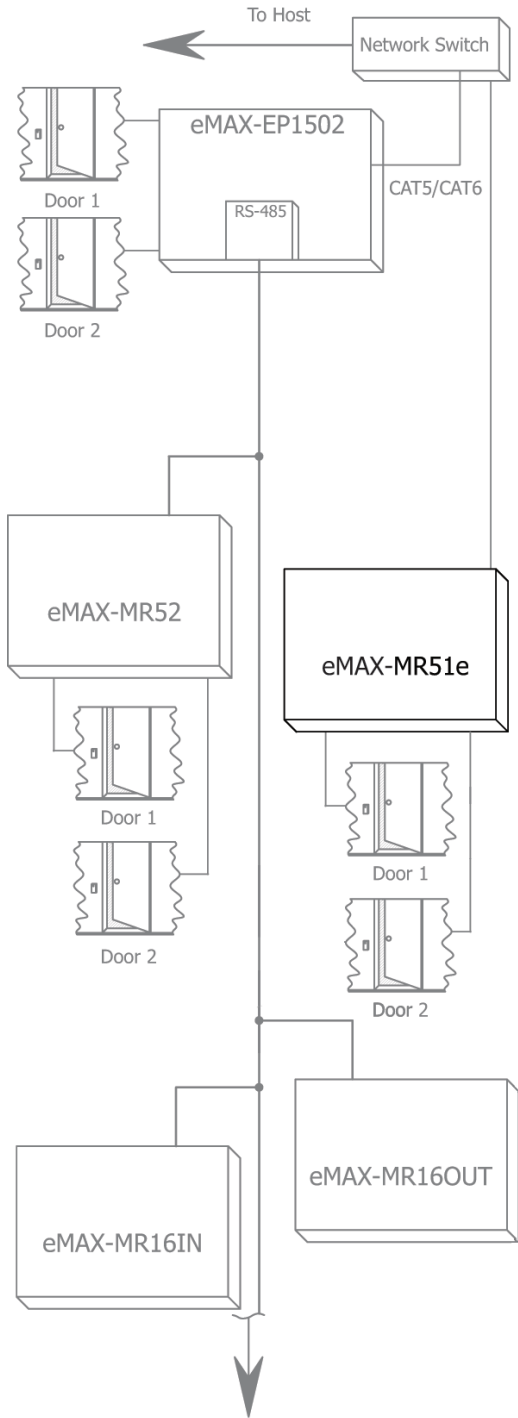
**Dimension:** 5.5" (140mm)W x 2.75" (70mm)

**Weight:**

**Environment:**

**Temperature:** -55°C to +85°C, storage  
 -40°C to +75°C, operating

**Humidity:** 10% to 95% RHNC



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