

System Controller eMAX-EP1501

MAXXESS Access Platform eMAX-EP1501 is the next generation intelligent controller within the eMAX-EP platform family. Feature-rich, the eMAX-EP1501 provides configurations with a high-performance, IP platform for controlling a single door onboard supporting an entry/exit card reader configuration. The eMAX-EP1501 controls a single portal with Power over Ethernet (PoE) capability or with standard 12v DC.

The eMAX-EP1501 seamlessly interfaces a single door to a larger system for flexible, reliable expansion. It can be expanded with up to 16 MR51e controllers for a complete IP-based solution and up to 8 RS485 SIO boards from the eMAX-MR family. This allows for additional inputs and outputs for functions such as mantraps. Note: You can combine eMAX-EP1501 controllers and RS485 SIO boards, but you can only control 17 doors max, including the one onboard.

The eMAX-EP1501 functions independently of the host and is capable of controlling access and managing elaborate processes such as:

- relating selected system devices and their activity to other onboard devices
- allowing actions and activities to transpire without host intervention.

The MAXXESS eMAX-EP1501 is capable of interfacing with an array of reader technologies for a single door. Reader ports support separate in/out readers and technologies that include Wiegand, clock and data, RS-485, magnetic stripe, keypads, LCD and biometrics.

The eMAX-EP1501 provides the flexibility, versatility and reliability you need for system success.

Application Notes

The Access Platform eMAX-EP1501 is the next-generation intelligent cornerstone of an access system, providing its first reader capability. The eMAX-EP1501 seamlessly interfaces a single door with a larger system for easy expansion. Providing all the intelligence and functionality of the MAXXESS family of controllers, the eMAX-EP1501 is PoE capable and sets the standard for powerful, reliable performance, all at an economical price point for OEMs.

Features:

- *Decentralizes system intelligence ("intelligence at the edge")*
- *Single-door interface*
- *Network ready*
- *Scalable to control 16-17 doors depending on configuration*
- *Seamless software interface*
- *Supports multiple card formats and card reader technologies*
- *PoE capable*
- *Triple gang footprint for easy mounting*
- *eMAX-MR51e support (up to 16 which can control up to 17 doors including the onboard)*
- *eMAX-MR50, MR52, MR16 in, or MR16 out via RS485 support (up to 8 RSIO devices which can control up to 16 doors)*

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

System Controller eMAX-EP1501

Technical Specifications

Power Input: PoE Power Input 12.95W, compliant to IEEE 802.3af or 12Vdc $\pm 10\%$ 900 mA maximum power supply. Note: For UL installations, POE powered devices shall not be used, power for these devices must be provided by an UL 294 listed power limited source (12Vdc).

Power Output:

12Vdc @ 650mA including reader and AUX output

Reader Interface:

Reader Power: PoE: 12 Vdc $\pm 10\%$ or local power supply (12Vdc).(PTC limited 150mA max)

Inputs: 2 general purpose programmable circuit type, and dedicated tamper

Outputs: 2 relays Form C, 2A @ 30Vdc

Reader Ports: Two TTL reader ports or one 2-wire RS-485 reader port capable of supporting two readers.

Keypad: Multiplexed with card data

LED: TTL compatible

Buzzer: Only with 'one-wire' LED

Dimensions:

Without Bracket -

5.5" (140mm)W x 2.75" (70mm)L x 0.96" (24mm)H

With Bracket -

5.5" (140mm)W x 3.63" (92mm)L x 1.33" (34mm)H

Temperature: 0-77°C operational, -55-85°C storage

Humidity: 10-95% RHNC

Technical Features

Connectivity

Primary Port: 10/100 Ethernet

Door Control

One physical barrier can be controlled using single or paired readers. Two reader ports: Mag, Wiegand, or RS-485 (RS-485 on one reader port capable of supporting two readers.)

Two supervised inputs, two relays. Diagnostic LEDs. Dedicated tamper input.

Access Control

- 240,000 Cardholders, 50,000 Transaction buffer.
- 32 Access Levels per cardholder.
- 19 digit (64-bit) Userid and 15 digit PIN numbers maximum.
- Activation/Deactivation Dates.
- If/Then Macro capability

Card Formats:

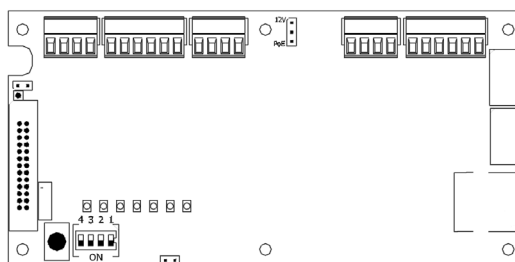
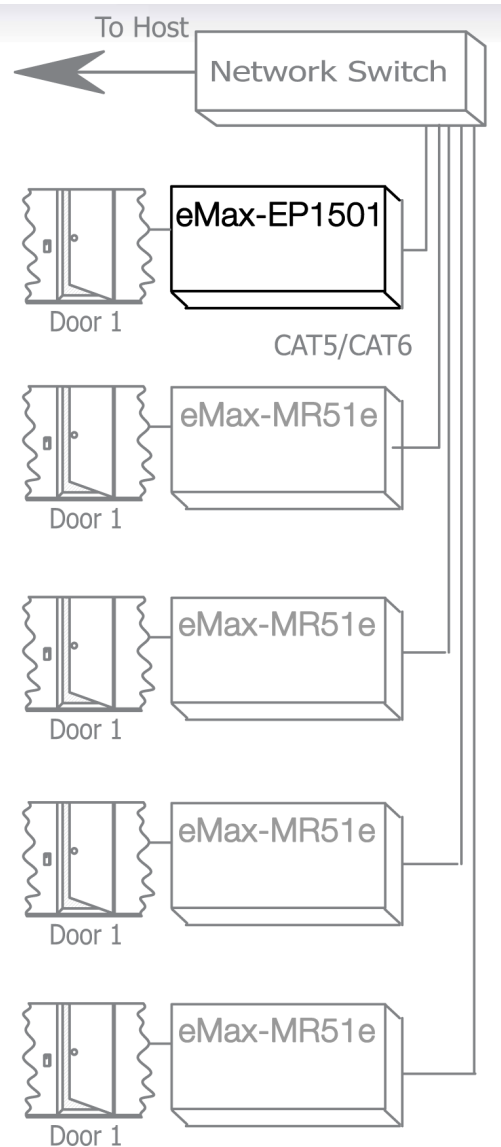
8 active card formats per EP1501. PIV-II, CAC, TWIC card compatible. Anti-passback support Nested area, hard, soft, or timed forgiveness.

Alarm Management

Normally open/Normally closed, unsupervised, supervised. Standard or custom end-of-line resistances.

Standards:

UL294 Recognized (pending), CE Compliant, ROHS, FCC Part 15 Class A, NIST Certified Encryption



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