



## Features

- Multi-card and multi-reader technology support
- AES 128 or 256 bit data encryption
- BACnet for streamlined building automation and control
- HSPD-12/FIPS201 capable
- UL 294 recognized
- Alarm keypad with function key support
- Support for High Assurance Credentials
- Intelligent oversight, auxiliary monitoring
- Scalable to 64 access points

## Benefits

- Decentralizes system intelligence; functions independently of the host once configured. Intelligent oversight, auxiliary monitoring
- Supports a wide range third party integrations and applications
- Flexible for increased device and system support
- Native IPv4 and IPv6 connectivity
- Supports OpenSSL library and SSL/TLS protocols for communications security

The **EP4502** intelligent controller is Mercury Security's next generation advanced access control platform. It has direct hardware support for 2 openings and can scale to 64 access points. Built on proven Authentic Mercury hardware, this high performance controller enables Mercury Technology Partners to add complimentary third-party software applications onboard. In addition, the EP4502 supports a variety of extended features including High Assurance Credential Authentication and it complies with the BACnet standard for partners to add a smart link to building automation and control systems.

The controller's enhanced onboard memory is designed to support multiple system applications and increased card populations with its storage capacity of up to 2,000,000 user records and an event buffer of 50,000 transactions. The flexible EP4502 utilizes the Linux operating system for extensive communications support and heightened IT security capabilities. It is also capable of managing access and alarms, and interfacing with an array of Mercury hardware devices -- all while providing the required decision-making oversight.

For partners seeking a comprehensive and open access control platform, increased user capacity, and a reliable hardware platform to host/expand their applications, the EP4502 is the clear solution. It delivers a complete security and access control solution as well as innovative application extensions, interoperability and data security.

## Application Notes

The EP4502 provides a two-door interface with auxiliary I/O, including onboard I/O for 2 readers, 8 supervised inputs, and 4 relay outputs. In addition to centralized biometric template management, the controller supports a wide range of reader communication connections, including Wiegand, clock and data, RS-485, OSDP and OSDP Secure Channel as well as all combinations of ID technologies such as magnetic stripe, proximity, smart cards, keypads, and LCD terminals.

### Primary Power:

12-24 Vdc +/- 10%, 500mA maximum

### Serial Ports:

Primary 10/100 Ethernet  
 Port 1: RS-485, 2-wire  
 Port 2: RS-485, 2-wire

### Inputs:

- 8 general purpose: programmable circuit type
- Two dedicated: tamper and power monitor

### Outputs:

- 4 relays: Form C, 5A 30Vdc

### Reader Ports:

- 2 Reader ports

### Reader Power:

- Unregulated pass through or regulated 12 Vdc (180mA max. per reader port)

### Reader Signaling:

- Clock/Data, Wiegand or RS-485

**Keypad:** Multiplexed with card data

**LED:** Two-wire or one-wire bicolor support

**Buzzer:** Only with 'one-wire' LED

**Dimensions:** 6.0" x 8.0" x 1.0" (152mm x 203mm x 25mm)

**Temperature:** 0-50 °C operational, -55-85 °C storage

**Humidity:** 0-95% RHNC

### Standards:

- UL294 Recognized, CE Compliant, ROHS
- FCC Part 15 Class A, NIST Certified Encryption
- BACNet Compliant, PSIA, SNMP, OSDP and OSDP SC

### Connectivity

#### Primary Port:

- 10/100 Ethernet

#### Door Control

- Two readers ports: Magstripe, Wiegand, RS-485, OSDP and OSDP Secure

#### Access Control

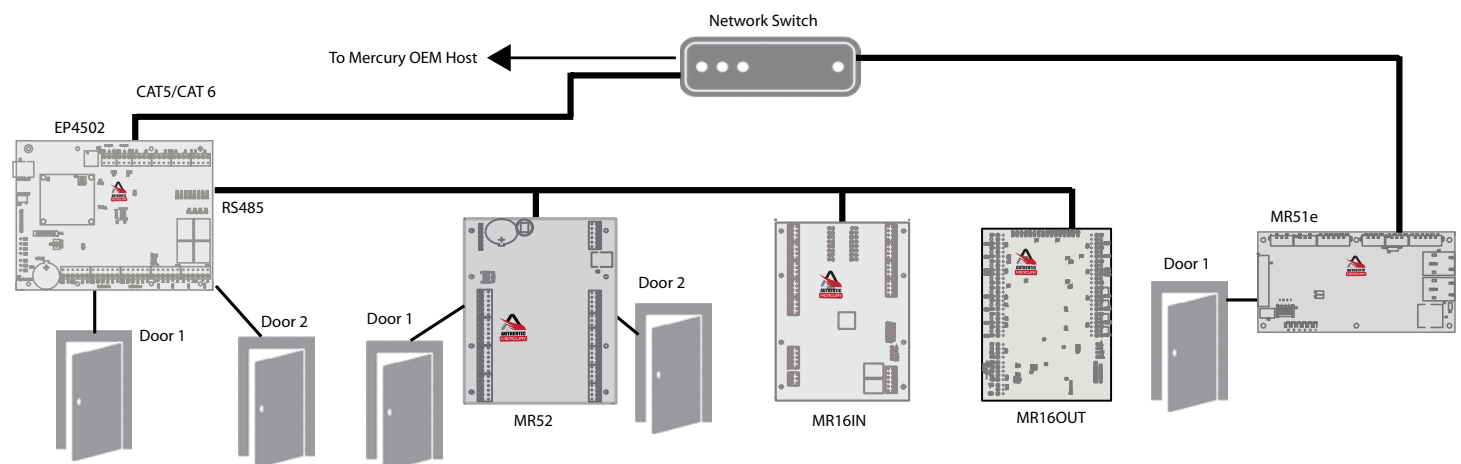
- 2,000,000 Cardholder records
- 50,000 transactions
- 255 Access Levels
- Cardholder - 19 Digit (64 Bit) User ID with 15 digit PIN
- Activation/Deactivation
- If/Then macro capabilities
- Anti-passback support
- Nested, area, hard, soft and timed forgiveness

#### Card Formats:

- 8 Active card formats per EP4502
- PIV, CAC and TWIC card compatible
- Support up to 200 bits with large encoded ID feature

#### Alarm Management

- Normally open/Normally closed, Unsupervised, Supervised
- Standard or custom end-of-line resistances



The Authentic Mercury open platform delivers quality assurance derived from the most proven and reliable hardware in the industry. Driven by our engineering excellence and technology leadership, Authentic Mercury hardware is designed as an access control platform that easily encompasses emerging technologies, changing industry standards and evolving system environments. Make yours Authentic, Make sure its Merc.