Mercury EP2500 Intelligent Controller

The EP2500 is a powerful intelligent controller with native network support and is scalable to 64 doors/openings. Built on the Authentic Mercury access control platform, the controller provides an Ethernet ready, fault-tolerant panel that can efficiently manage a large network of access panels in any system design.

The high-performance EP2500 uses an Ethernet link to connect to a BluSKY™ based host and supports a redundant downstream communications for access control and alarm management -- all in a single package.

Capable of elaborate processes and procedures without host intervention, the intelligent controller, once programmed, can function independently of the host. It also supports a range of embedded functionality and interfaces with an array of Mercury hardware devices, all while providing the decision-making oversight that each every system configuration requires.

For high device counts, large cardholder populations and high volume system activity, the EP2500 is an ideal controller platform.

Application Notes

The EP2500 is an intelligent access control platform for enterprise-wide performance and is best deployed in systems where high-end capabilities and network-ready capacity are required.
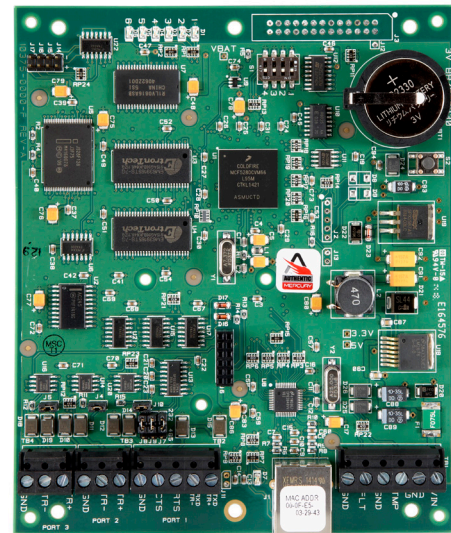
Features

- Multi-operating system interface
- Multi-host interface communications
- Fault-tolerant communications capability
- Multi-card format support
- Multi-reader technology support
- AES 128 bit data encryption
- UL 294 recognized
- Alarm keypad support
- Function key support

Benefits

- Scalable to 64 doors/openings
- Network enabled providing greater flexibility to installers
- Connects to a BluSKY™ host for increased programming flexibility
- Capable of sophisticated functionality and communication to non access control systems -- without being connected to host
- Proven performance track record as an aggregator and device manager for small to large enterprise

System Diagram
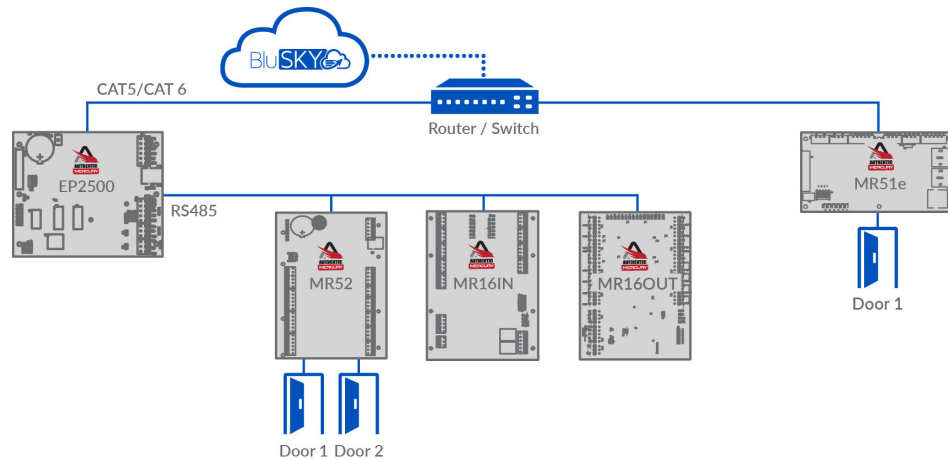
Specifications

Primary Power:
12-24 VDC +/- 10%, 300mA maximum

Serial Ports:
Primary: 10/100 Ethernet
Port 1: RS-232, 2-wire RS-485
or Ethernet adapter
Port 2: 2-wire RS-485
Port 3: 2-wire RS-485

Inputs:
Two dedicated: tamper and power monitor

Dimensions:
5.0" x 6.0" x 1.0" (127mm x 152mm x 25mm)

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

Humidity:
0-95% RHNC

Standards:
• UL294 Recognized, CE Compliant, ROHS,
• FCC Part 15 Class A, NIST Certified Encryption

Connectivity

Primary Port:
• 10/100 Ethernet
• IP Server, IP Client, DHCP Client
• HTTP, TLS, X.509, SNMP
• Back up channel: RS-232, RS-485, Dial-up

Access Control:
• 600,000 Cardholder capacity
• 50,000 Transaction buffer
• If/Then Macro capability

Card Formats:
• 8 active card formats per EP2500
• Entire card number reported on invalid read
• 19 digit (64-bit) UserId and 15 digit
• PIN numbers maximum
• PIV-II, CAC, TWIC card compatible
• 32 Access Levels per cardholder
• Activation/Deactivation Dates
• Anti-passback support
• Reader-based or time based
• Hard, soft, or timed forgiveness

Ordering Information

MFG Part #	BluBØX Order #	Description
EP2500	120-1200	Mercury - EP2500 DB Controller Only Ethernet 12/24VDC

BluBØX Security, Inc. is a manufacturer and service provider of web-cloud based physical security products. Its BluSKY service delivers enterprise class unified access control, alarm management, video surveillance, biometrics and visitor management on any device, anywhere, any time. Its BluCHIP open hardware platform provides industry standard components and a proprietary line of fully integrated multi-factor, multi-biometric Person Readers.