The multi-port EP1502 and LP1502 are Ethernet-enabled dual card reader panels for controlling two connected doors and managing up to 64 doors/openings. Built on the Authentic Mercury platform, the intelligent controllers use an Ethernet link to connect to a BluSKY™ host for access control, alarm management, and scheduled operations—all in a single package.

With native connectivity, the high-performance EP1502 and LP1502 function independently of the host for performing numerous access control applications and interfacing with an array of reader technologies: Wiegand, OSDP, RS-485 magnetic stripe, and biometrics.

Alarm management capabilities include standard end-of-line (EOL) resistances; programmable sensitivity and hold time for line conditioning; entry delay latching and unlatching options; and entry-exit delays.

The result is powerful intelligent controllers that deliver flexibility, versatility, and reliability for a successful access control system.

**Application Notes**

The EP1502 and LP1502 reliably distribute intelligence to ensure the activities generated by select devices can be related to other devices for continued actions, without host intervention.

**Features**

1. Multi-operating system interface
2. Multi-host interface communications
3. AES 128-bit data encryption support
4. Alarm keypad support
5. Function key support
6. Universal I/O device
7. UL 294 recognized
8. Open Architecture
9. Enhanced Security
10. OSDP Protocol
11. Versatile Interoperability

Benefits

1. Scalable to 64 doors/openings
2. Connects to a BluSKY™ host for increased programming versatility
3. Supports a range of wired and wireless reader technologies
4. Supports multiple card formats for flexibility
5. Intelligent oversight of auxiliary point control and monitoring
6. Use of hardware with Mercury OEM partners' software solutions
7. Embedded crypto memory chip and data at rest encryption
8. Secure channel security for reader connectivity
9. Same reliable interface and identical footprint as the EP controllers

System Diagram

Specifications

https://knowledge.blub0x.com/Datasheets/Access_Control_Boards/Controllers/Mercury_EP1502_Intelligent_Controller
Powered by
Primary Power:

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

Serial Ports:

1. Primary 10/100 Ethernet
2. Port 1: RS-232
3. Port 2: RS-485, 2-wire

Inputs:

1. 8 general-purpose (programmable circuit type)
2. Two dedicated (tamper and power monitor)

Outputs: 4 relays (Form C, 5A 30VDC)
Reader Ports: 2 reader ports

Power:

1. Unregulated pass through (150mA max.)
2. Signaling card/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: 0-70°C operational, -55-85°C storage
Humidity: 0-95% RHNC

Standards:

1. UL294 recognized, CE compliant, ROHS
2. FCC Part 15 Class A, NIST-certified encryption

Connectivity Primary Port:

1. 10/100 Ethernet
2. RS-232, dial up

Door Control:

1. Two reader ports (Mag, Wiegand, or ...RS-485; RS-485)
2. Eight supervised inputs, four relays
3. Diagnostic LEDs

Primary Port:
1. 10/100 Ethernet
2. RS-232, dial up

Access Control:

1. 240,000 cardholder capacity, 50,000 transaction buffer
2. 32 access levels per cardholder
3. 19-digit (64-bit) User ID and 15-digit PIN numbers max.
4. Activation/deactivation dates
5. If/then macro capability

Card Formats:

1. 8 active card formats per EP1501
2. Anti-passback support nested area, hard, soft, or timed forgiveness

Alarm Management:

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

Ordering Information:

<table>
<thead>
<tr>
<th>MFG Part #</th>
<th>BluBØX Order #</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>EP1502</td>
<td>120-1100</td>
<td>Mercury - EP1502 Two Door DB Controller Ethernet 12/24VDC Auxiliary I/O</td>
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<tr>
<td>LP1502</td>
<td>XXXX</td>
<td>Mercury - LP1502 Two Door DB Controller Ethernet 12/24VDC Auxiliary I/O</td>
</tr>
</tbody>
</table>

Additional Resources

EP1502/LP1502_DataSheet.pdf