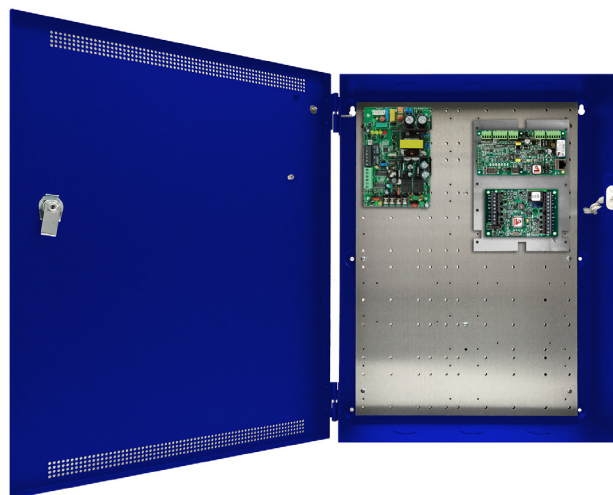




## BluCHIP 1501-2R/4I/4O-E2M

Mercury EP1501 Two Reader/Four Input/Four Output System for Four Doors

The BluCHIP 1501-2R/4I/4O-E2M is a unified Two Reader/Four Input/Four Output System for Four Doors and expansion space to support two additional readers. The kit is configured with space to add backup battery and utilizes an FPO power supply to generate 12 or 24VDC. It includes a Mercury EP1501 and a Mercury MR50 board, a locking four door enclosure with tamper, power supply and wiring speed kit. It is expandable to four readers with one Mercury MR52 board. Remote management and reporting of power supply and battery health are available through BluSKY Power Diagnostics.



### System Features

#### FPO offline power supply

- 120 or 230 VAC input
- 12 and 24 VDC outputs
- On board Fire Alarm Interface
- Continuous and resettable DC

#### Distributed output module

- Four, controlled fused at 3A each
- Eight, auxiliary Class II P limited at 2.5A each

#### Expansion options

- Increased power, multiple voltages
- Additional distribution outputs
- Power management

### Specifications

#### Input Power:

- Input 120/230VAC 50/60Hz | 100 Watts
- Overload and short circuit protection
- Over temperature protection
- Polarized AC power supply disconnect

#### Output Power:

- 75W Total Output Power | 12VDC/6A or 24VDC/3A
- FPO Board Outputs: Continuous (DC1), Resettable (DC2)
- 120mV Output Voltage Ripple | System Efficiency: 85% | System BTU Rating: 33 BTU/Hr

#### Battery Charging:

- Independent built-in 2A (FPO75) Charger for sealed lead-acid or gel type batteries
- Microprocessor dual rate charging of 12 or 24V battery sets
- Automatic switchover to standby battery when AC fails
- Zero voltage drop when switched over to battery backup

### Enclosure Features

#### Labor saving design

- Unified power and security in one enclosure
- Pre-wired power section
- Removeable backplate simplifies installs
- Speed kit is included for power and data wiring

#### Additional benefits

- Wire management room
- 4.5" enclosure depth fits battery set
- Tamper switch, lock, dual key set standard
- Mounting hardware for access boards included

#### Regulatory Compliance:

- UL294, UL603, UL864, UL1076, UL1481, UL2044, UL2572, ULC S318, ULC S319, ULC S527, CSA C22.2 #107.1, FCC Part 15, CSFM Approved

#### Access Panel:

- (1) EP1501, (1) Mercury MR50  
2 Readers | 4 Inputs | 4 Outputs

#### Size and Weight:

- 20.00"H x 16.00"W x 4.50"D | 27 lbs.

## Recommended board layout



## Kit Includes

MFG Part #	BluBØX Order #	QTY	Description
EP1501	120-1000	1	Mercury EP1501: One door DB controller Ethernet PoE/12V
MR50	120-2300	1	Mercury MR50: One Door Controller 12/24VDC
E2M-SK-3	577-3005	1	BluBØX E2M-SK-3 Speed Kit: Three board precut DC power and RS485 wiring kit
EP1501-MR50	640-1400	1	BluBØX EP1501-MR50 Bracket
FPO75-E2M	670-1320	1	LifeSafety Power: Single voltage power supply, includes enclosure

## Expansion Options

MFG Part #	BluBØX Order #	QTY	Description
MR52	120-2500	1	Mercury MR52: Two door controller & auxiliary I/O 12/24VDC

## Ordering Information

BluBØX Order #	Description
752-2000	Mercury EP1501 Two Reader/Four Input/Four Output System for Four Doors

BluBØX: Security Re-Imagined

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