



## BluCHIP 1501-1R/2I/2O-E4M

Mercury EP1501 One Reader/Two Input/Two Output System for Eight Doors

The BluCHIP 1501-1R/2I/2O-E4M is a unified One Reader/Two Input/Two Output System for Eight Doors and expansion space to support seven additional readers. The kit is configured with space to add backup battery and utilizes an FPO power supply to generate 24VDC and a B100 to generate 12VDC. It includes a Mercury EP1501 board, a locking eight door enclosure with tamper, power supply and wiring speed kit. It is expandable to eight readers with one Mercury MR50 and three Mercury MR52 boards. Remote management and reporting of power supply and battery health are available through BluSKY Power Diagnostics.

### System Features

#### FPO offline power supply

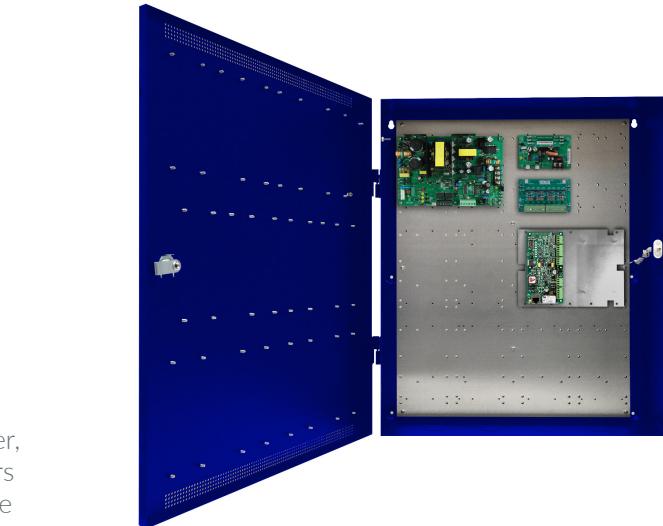
- 120 or 230 VAC input
- 12 and 24 VDC outputs
- On board Fire Alarm Interface
- Continuous and resettable DC

#### 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



### 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
- Includes mounting studs on door to add additional I/O boards.

#### 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

### Specifications

#### Input Power:

- Input 120/230VAC 50/60Hz | 200 Watts
- Overload and short circuit protection
- Over temperature protection
- Polarized AC power supply disconnect

#### Output Power:

- 150W Total Output Power | 12VDC/6A or 24VDC/3A
- 5-18VDC @ 4A Max. | FPO Board Outputs: Continuous (DC1), Resettable (DC2)
- 8 Auxiliary Outputs, Class 2 PL @ 2.5A each
- 120mV Output Voltage Ripple | System Efficiency: 88% | System BTU Rating: 66 BTU/Hr

#### Battery Charging:

- Independent built-in 2A (FPO150) 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

#### 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 Reader | 2 Inputs | 2 Outputs

#### Size and Weight:

- 20.00"H x 16.00"W x 4.50"D | 28 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
E2ML-SK-3T	577-3015	1	BluBØX E4M-SK-5 Speed Kit: Five board precut DC power and RS485 wiring kit.
EP1501-MR50	640-1400	1	BluBØX EP1501-MR50 Bracket
FPO150-B100D8PE4M1	670-1385	1	LifeSafety Power: Eight door power supply w/ power distribution, includes enclosure

## Expansion Options

MFG Part #	BluBØX Order #	QTY	Description
MR50	120-2300	1	Mercury MR50: One door controller 12/24VDC
MR52	120-2500	3	Mercury MR52: Two door controller & auxiliary I/O 12/24VDC

## Ordering Information

BluBØX Order #	Description
752-1400	Mercury EP1501 One Reader/Two Input/Two Output System for Eight Doors

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