



## BluCHIP 1501-4R/12I/10O-E2M

Mercury EP1501 Four Reader/Twelve Input/Ten Output System for Four Doors

The BluCHIP 1501-4R/12I/10O-E2M is a unified Four Reader/Twelve Input/Ten Output System for Four Doors. 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, Mercury MR50, and a Mercury MR52 board, a locking four door enclosure with tamper, power supply and wiring speed kit. 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

#### 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 | 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 1A (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

#### 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) MR50, (1) MR52
- 4 Readers | 12 Inputs | 10 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
MR52	120-2500	1	Mercury MR52: Two door controller & auxiliary I/O 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

## Ordering Information

BluBØX Order #	Description
752-3000	Mercury EP1501 Four Reader/Twelve Input/Ten Output System for Four Doors

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