



BluCHIP 1501-4R/12I/10O-E4M1LPM

Mercury EP150 Four Reader/Twelve Input/Ten Output System w/
Managed Lock Power and Power Management for Eight Doors

The BluCHIP 1501-4R/12I/10O-E4M1LPM is a unified Four Reader/Twelve Input/Ten Output System with Managed Lock Power and Power Management for Eight Doors and expansion space to support four additional readers. The kit is configured with an integral battery space and utilizes an FPO power supply to generate 24VDC and B100 to generate 12VDC. It includes a Mercury EP1501 board, Mercury MR50, Mercury MR52, a locking eight door enclosure with tamper, power supply, and wiring speed kit. Local managed lock power, power monitor and control is included. It is expandable to eight readers with two 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

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



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

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) MR50, (1) MR52
4 Readers | 12 Inputs | 10 Outputs

Size and Weight:

- 24.00"H x 20.00"W x 4.5"D | 42lbs

Recommended board layout

The LSP NL4 is installed directly over the LSP B100 with included 6-32 x 1.25" standoffs and right angle Ethernet adapter.



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 & auxilliary I/O 12/24VDC
E4ML-SK-5T	577-3045	1	BluBØX E4ML-SK-5T Speed Kit: Five board precut DC power, RS485 and lock trigger wiring kit
EP1501-MR50	640-1400	1	BluBØX EP1501-MR50 Bracket
FPO150-B100M8PD8PNL4E4M1-NLKIT	670-1463	1	LifeSafety Power: Eight door power supply w/ power distribution and management, includes enclosure

Expansion Options

MFG Part #	BluBØX Order #	QTY	Description
MR52	120-2500	2	Mercury MR52: Two door controller and auxilliary I/O 12/24VDC

Ordering Information

BluBØX Order #	Description
752-3500	Mercury EP1501 Four Reader/Twelve Input/Ten Output System w/ Managed Lock Power and Power Management for Eight Doors

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