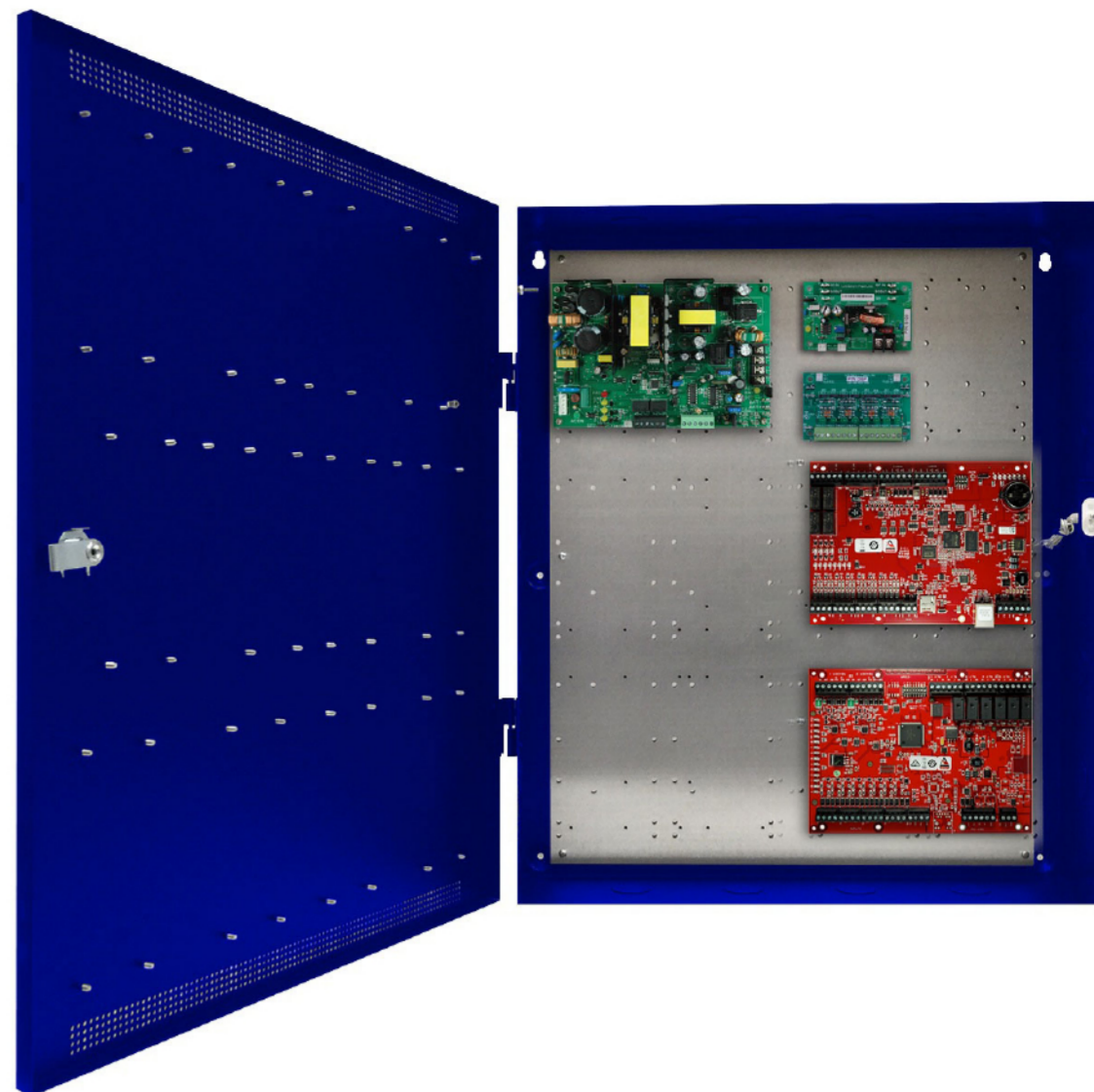# BluCHIP 1502-4R/16I/10O-E4M (752-6001)

## BluCHIP 1502 Four Reader/ Sixteen Input/ Ten Output System for Four Doors

The BluCHIP 1502-4R/16I/10O-E4M is a unified Four Reader/ Sixteen Input/Ten Output System for Four Doors and expansion space to support four 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 LP1502 board and a MR52-S3 board, a locking eight door enclosure with tamper, power supply and wiring speed kit. 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

## Enclosure Features

### Labor saving design

- Unified power and security in one enclosure
- Pre-wired power section
- Removable 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/12A or 24VDC/6A
- 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) LP1502, (1) MR52-S3
    4 Readers | 16 Inputs | 10 Outputs

## Size and Weight:

- 24.00"H x 16.00"W x 4.50"D | 40 lbs.

## Recommended board layout



## Kit Includes

| MFG Part # | BluBØX Order # | QTY | Description |
|---|---|---|---|
| LP1502 | 120-1101 | 1 | Mercury LP1502: Two door DB controller Ethernet 12/24VDC Auxiliary I/O |
| MR52-S3 | 120-2501 | 1 | Mercury MR52-S3: Two door controller & auxiliary I/O 12/24VDC |
| E4M-SK-4 | 577-3010 | 1 | BluBØX E4M-SK-4 Speed Kit: Four board precut DC power and RS485 wiring kit |
| FPO150-B100D8PE4M1 | 670-1385 | 1 | LifeSafety Power: Eight door power supply w/ power distribution, includes enclosure |

## Expansion Options

| MFG Part # | BluBØX Order # | QTY | Description |
|---|---|---|---|
| MR52-S3 | 120-2501 | 1 | Mercury MR52-S3: Two door controller & auxiliary I/O 12/24VDC |

## Ordering Information

| BluBØX Order # | Description |
|---|---|
| 752-6001 | Mercury LP1502 Four Reader/Sixteen Input/Ten Output System for Four Doors |