Altronix®

Rev. 01172023

# T3MK7716 (Kit)

## Access & Power Integration Solution for Mercury

TROVE™

Altronix T3MK7716 kit consists of Trove3 enclosure and TM3 Altronix & Mercury backplane with two 24VDC @ 10A power supply/chargers, two eight (8) fuse protected output access control modules and two eight (8) fuse protected output power distribution modules. This kit also accommodates various combinations of Mercury* boards for up to sixteen (16) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.

*Also compatible with these authentic Mercury partners:
AccessNsite, Avigilon, BadgePass, BluBox, Feenics, Genetec, Identicard, IMRON, Johnson Controls, Kastle, Keri Systems, Lenel/S2, LockState, Maxxess, Midpoint Security, NLSS, Open Options, Panasonic Video Insight, Quintron, RS2, Schneider Electric, Vanderbilt

Mercury™

T3MK7716

*Mercury boards are not included*

## Key Features

- 24VDC power supply/chargers
- Accommodates the following Mercury controllers:
  Mercury: LP1501, LP1502, LP2500, LP4502, MR16IN, MR16OUT, MR50, MR52, MR62e, MUX8
- Convenient knockout configuration:
  - One (1) single knockout 2.415" (2" Conduit)
  - Two (2) double knockouts
    1.948" (1.5" Conduit) / 1.701" (1.25" Conduit)
  - Thirteen (13) double knockouts
    1.362" (1" Conduit) / 1.115" (3/4" Conduit)
- 16 gauge galvanized steel backplane simplifies board layout and wire management
- Enclosure accommodates up to four (4) 12VDC/12AH batteries
- Supervision
  - AC Fail
  - Battery Fail and Battery Presence
- Agency Listings:
  - All Altronix components of this Trove kit are UL Listed sub-assemblies. Please refer to the Sub-Assembly Installation Guides for further information
    - UL: UL294 - Access Control System
    - cUL: CAN/ULC - s319-05 - Electronic Access Control Systems
  - CE European Conformity
- Lifetime Warranty*

*Altronix Power Supply/Chargers and Sub-Assemblies only*

Altronix Corporation | 140 58th St | Brooklyn, NY 11220 USA
phone: +1 718.567.8181 | fax: +1 718.567.9056 | email: info@altronix.com | www.altronix.com

Altronix®

# T3MK7716 (Kit)

Access & Power Integration Solution for Mercury

TROVE™

## Specifications

### Two (2) Power Supply/Chargers (AL1024ULXB2):

**Input**

| | |
|---|---|
| Voltage | 115VAC 60Hz, 4.2A |
| Input Fuse | 5A/250V |

**Output**

| | |
|---|---|
| Voltage | 24VDC |
| Current | 10A @ 24VDC continuous max. |
| Other | Overvoltage protection. Filtered and regulated |

**Battery Charging**

| | |
|---|---|
| Capacity | 12VDC/12AH (4 within enclosure)<br>40AH/65AH (requires separate enclosure) |
| Type | Sealed lead acid or gel type |
| Failover | Upon AC loss, instantaneous |

Batteries are sold separately

**Supervision**

| | |
|---|---|
| AC Failure | Form "C" contacts |
| Battery | Form "C" contacts |

**Indicators (LED)**

| | |
|---|---|
| Input | 115VAC is present |
| DC Output | Powered |
| Battery | Discharged or not connected |

### Two (2) Power Distribution Modules (PD8UL):

**Input**

| | |
|---|---|
| Voltage | 24VDC from AL1024ULXB2 |

**Outputs**

| | |
|---|---|
| Voltage | 24VDC |
| Fuses | 3.5A/250V |

**Indicators (LED)**

| | |
|---|---|
| Green LED | DC Output |

### Two (2) Access Power Controllers (ACM8):

**Input**

| | |
|---|---|
| Voltage | 24VDC from AL1024ULXB2 |
| Input Fuse | 10A/250V |

**Outputs**

Voltage 24VDC

Eight (8) 24VDC independently controlled fused outputs:

a) Fail-Safe and/or Fail-Secure power outputs
Form "C" Relays rated 28VAC or VDC @ 2.5A

b) Auxiliary power outputs (unswitched)

c) Any combination of the above

Output Fuses 3.5A/250V

**Indicators (LED)**

| | |
|---|---|
| Red LEDs | Outputs are triggered (relays energized) |
| Green LED | FACP disconnect is triggered |

### T3MK7716 Kit:

**Agency Listings**

All components of this Trove kit are UL Listed sub-assemblies. Please refer to the corresponding Sub-Assembly Installation Guides for further information

CE European Conformity

**Physical and Environmental**

Dimensions (H x W x D)

Enclosure:
36.12" x 30.125" x 7.06" (917.5mm x 768.1mm x 179.3mm)

Shipping:
40.75" x 35.25" x 12" (1035.1mm x 895.4mm x 304.8mm)

Weight (approx.)

| | |
|---|---|
| Product | 85.6 lb. (38.83 kg) |
| Shipping | 98.8 lb. (44.82 kg) |

Temperature

| | |
|---|---|
| Operating | 0ºC to 49ºC (32ºF to 120ºF) |
| Storage | – 20ºC to 70ºC (– 4ºF to 158ºF) |

Relative Humidity 85% +/– 5%

BTU/Hr (approx.): 289 BTU/Hr.

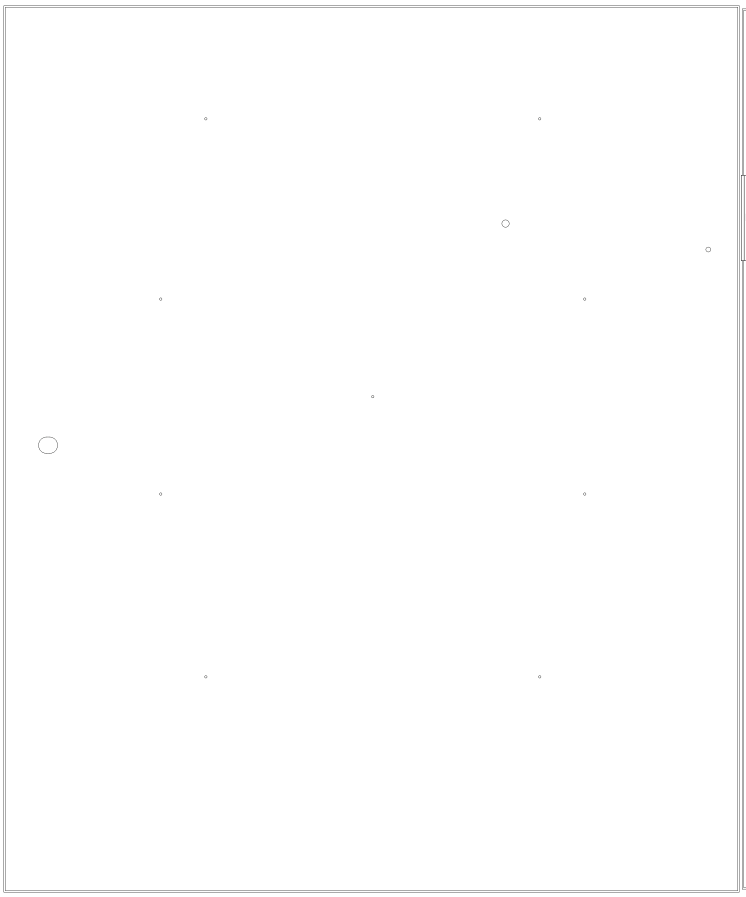
Altronix Corporation | 140 58th St | Brooklyn, NY 11220 USA
phone: +1 718.567.8181 | fax: +1 718.567.9056 | email: info@altronix.com | www.altronix.com

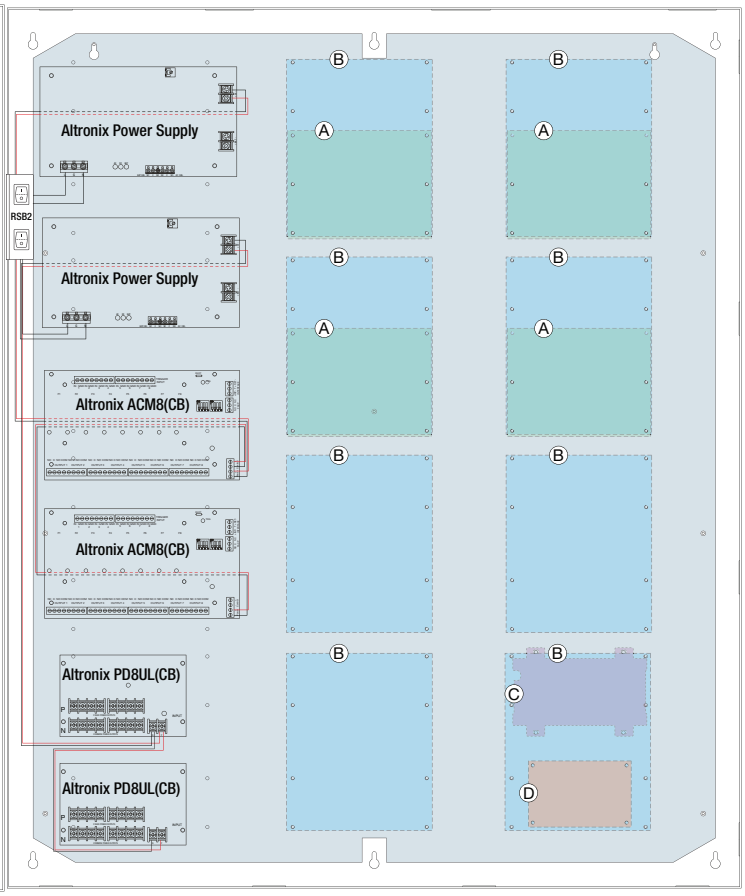
# T3MK7716 (Kit)

Access & Power Integration Solution for Mercury

## Access Controller Position Chart for the Following Models:

| Altronix/Mercury | Pem Mounting |
|---|---|
| LP2500, MUX8 | A |
| LP1502, LP4502, MR52, MR16IN, MR160UT | B |
| LP1501, MR62e | C |
| MR50 | D |






Altronix Corporation | 140 58th St | Brooklyn, NY 11220 USA
phone: +1 718.567.8181 | fax: +1 718.567.9056 | email: info@altronix.com | www.altronix.com

Altronix®

# T3MK7716 (Kit)

Access & Power Integration Solution for Mercury

TROVE™

## Accessories (order separately)

WM5

### WM5, WM25, WM100 - Magnetic Cable Tie Mounts

Altronix WM5, WM25, and WM100 are packs of 5, 25 or 100 magnetic cable tie mounts respectively. They accommodate standard zip ties or velcro straps.
These are ideal for wire management in our Trove series.

Mounting Magnet

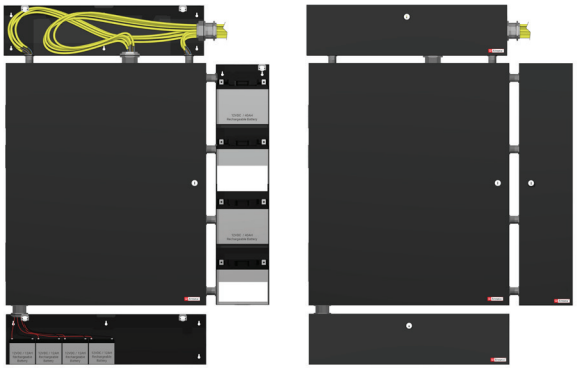
### MM4, MM8, MM12, MM24 - Magnetic Mounting Solution

Altronix mounting magnets accommodate screws and nylon standoffs to allow for mounting various boards/ accessories in any metal enclosure or backplane.

BR1

### BR1 - Sub-Assembly Mounting Bracket

Altronix BR1 mounting bracket is compatible with Altronix Maximal and Trove enclosures. It allows to mount one (1) PD4UL(CB), PD8UL(CB), ACM4(CB), MOM5, VR6, PDS8, NetWay5B or LINQ8PD(CB) sub-assembly on the enclosure's inside wall, saving valuable space.



*Typical battery/wiring setup with Trove3 Enclosure (not included)*

### TROVE3BWC / TROVE3SWC - Battery/Wire Trough Enclosure

Altronix Trove3BWC and Trove3SWC are dual-purpose enclosures that can be used as wiring troughs or battery cabinets when mounted above or below (Trove3BWC) or on either side (Trove3SWC) of the Trove integrated power and access solution. The knockouts on the Trove3BWC and Trove3SWC have been strategically placed to line up with the Trove3 allowing for easy conduit connections between cabinets.Trove3BWC and Trove3SWC include cam locks and 2 tamper switches each to ensure access to wiring and batteries is secure.

Altronix Corporation | 140 58th St | Brooklyn, NY 11220 USA
phone: +1 718.567.8181 | fax: +1 718.567.9056 | email: info@altronix.com | www.altronix.com

Altronix®

# T3MK7716 (Kit)

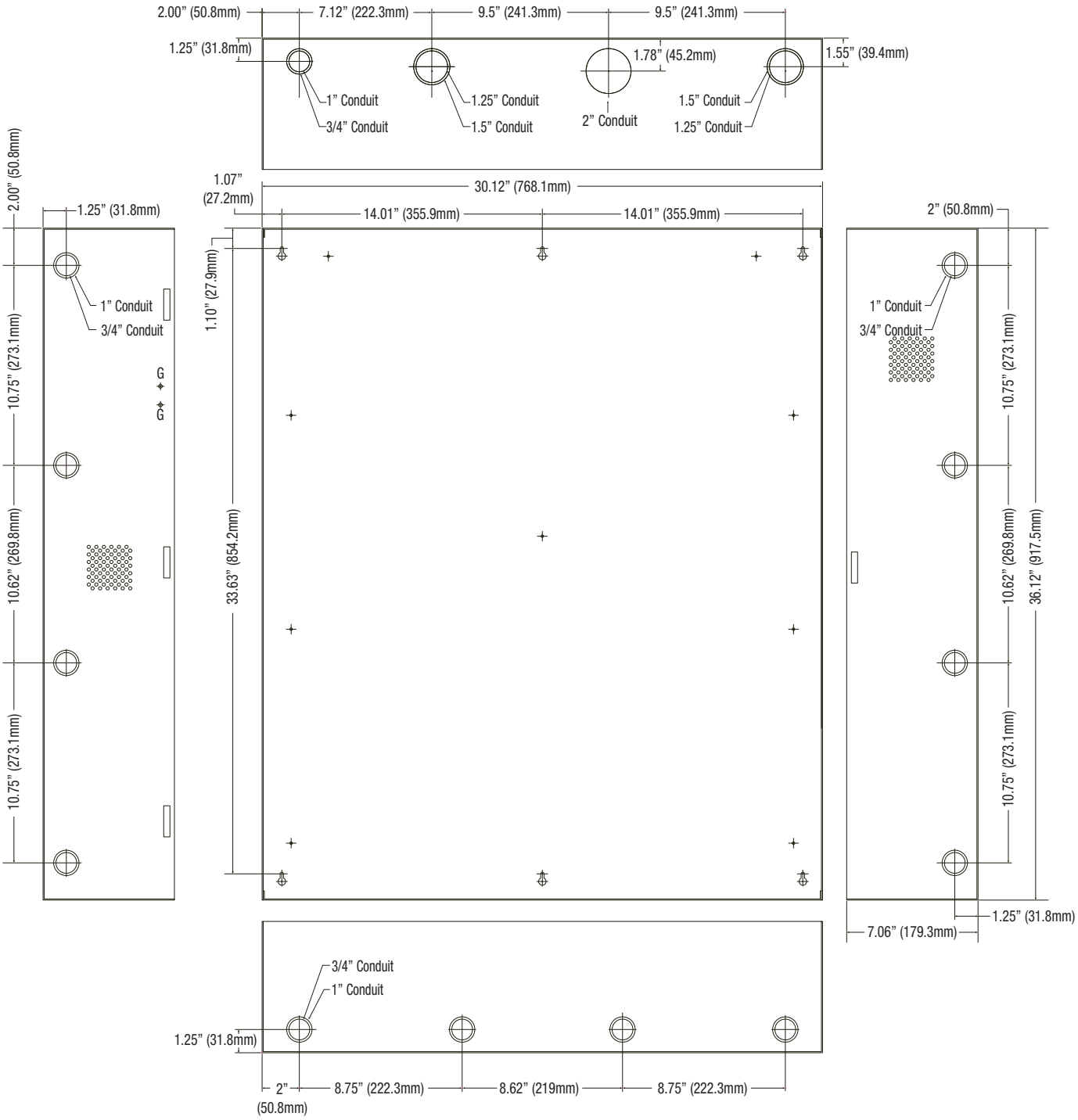
Access & Power Integration Solution for Mercury

TROVE™

## Dimensions and Drawing

Dimensions (H x W x D approximate)

36.12” x 30.125” x 7.06” (917.5mm x 768.1mm x 179.3mm)




Altronix Corporation | 140 58th St | Brooklyn, NY 11220 USA
phone: +1 718.567.8181 | fax: +1 718.567.9056 | email: info@altronix.com | www.altronix.com