

## T3MK7716SD (Kit)

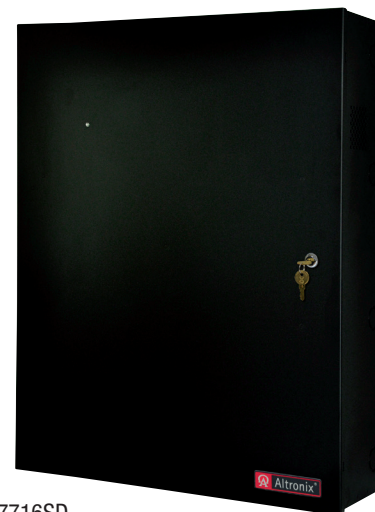
Access & Power Integration Solution for Mercury

# TROVE™

Altronix T3MK7716SD kit consists of Trove3 enclosure and TM3 Altronix & Mercury back-plane with two 24VDC @ 10A power supply/chargers, two eight (8) PTC protected output access control modules, two eight (8) PTC protected dual output power distribution modules and one (1) voltage regulator. 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, Identocard, IMRON, Johnson Controls, Kastle, Keri Systems, Lenel/S2, LockState, Maxxess, Midpoint Security, NLSS, Open Options, Panasonic Video Insight, Quintron, RS2, Schneider Electric, Vanderbilt



T3MK7716SD

*Mercury boards are not included*

### Key Features

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| <ul style="list-style-type: none"><li>- 24VDC power supply/chargers</li><li>- Accommodates the following Mercury controllers:<br/>Mercury: LP1501, LP1502, LP2500, LP4502, MR16IN, MR16OUT, MR50, MR52, MR62e, MUX8</li><li>- Convenient knockout configuration:<ul style="list-style-type: none"><li>- One (1) single knockout 2.415" (2" Conduit)</li><li>- One (1) double knockout<br/>1.948" (1.5" Conduit) / 1.701" (1.25" Conduit)</li><li>- Sixteen (16) double knockouts<br/>1.362" (1" Conduit) / 1.115" (3/4" Conduit)</li></ul></li><li>- 16 AWG galvanized steel backplane simplifies board layout and wire management</li></ul> | <ul style="list-style-type: none"><li>- Enclosure accommodates up to four (4) 12VDC/12AH batteries</li><li>- Supervision<ul style="list-style-type: none"><li>- AC Fail</li><li>- Battery Fail and Battery Presence</li></ul></li><li>- Agency Listings:<ul style="list-style-type: none"><li>- All Altronix components of this Trove kit are UL Listed sub-assemblies. Please refer to the Sub-Assembly Installation Guides for further information</li><li>- UL: UL294 - Access Control System</li><li>- cUL: CAN/ULC - s319-05 - Electronic Access Control Systems</li><li>- CE European Conformity</li></ul></li><li>- Lifetime Warranty*</li></ul> |
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*\*Altronix Power Supply/Chargers and Sub-Assemblies only*

**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 (2 within enclosure) 40AH/65AH (requires separate enclosure)
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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) Access Power Controllers (ACM8CB):****Input**

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

**Outputs**

Voltage	24VDC
Eight (8) 24VDC independently controlled PTC 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 PTCs	2.5A
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**Indicators (LED)**

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

**Voltage Regulator (VR6):****Input**

Voltage	24VDC from AL1024ULXB2
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**Output**

Voltage	12VDC
Current	6A continuous
Other	Surge suppression

**Indicators (LED)**

Input	24VDC is present
Output	Powered

**Two (2) Dual Input Power Distribution Modules (PDS8CB):****Input**

Voltage	24VDC from AL1024ULXB2 and 12VDC from VR6
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Input PTCs	9A
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**Outputs**

Voltage	12VDC and/or 24VDC
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Any of the eight (8) power outputs are selectable to follow power Input 1 or Input 2

Individual outputs may be set to OFF position for servicing

Output PTCs	2.5A
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**Indicators (LED)**

DC Output	Eight (8) individual output LEDs
Green:	12VDC
Red:	24VDC

**T3MK7716SD 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
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**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)
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Shipping:	40.75" x 35.25" x 12" (1035.1mm x 895.4mm x 304.8mm)
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**Weight (approx.)**

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

**Temperature**

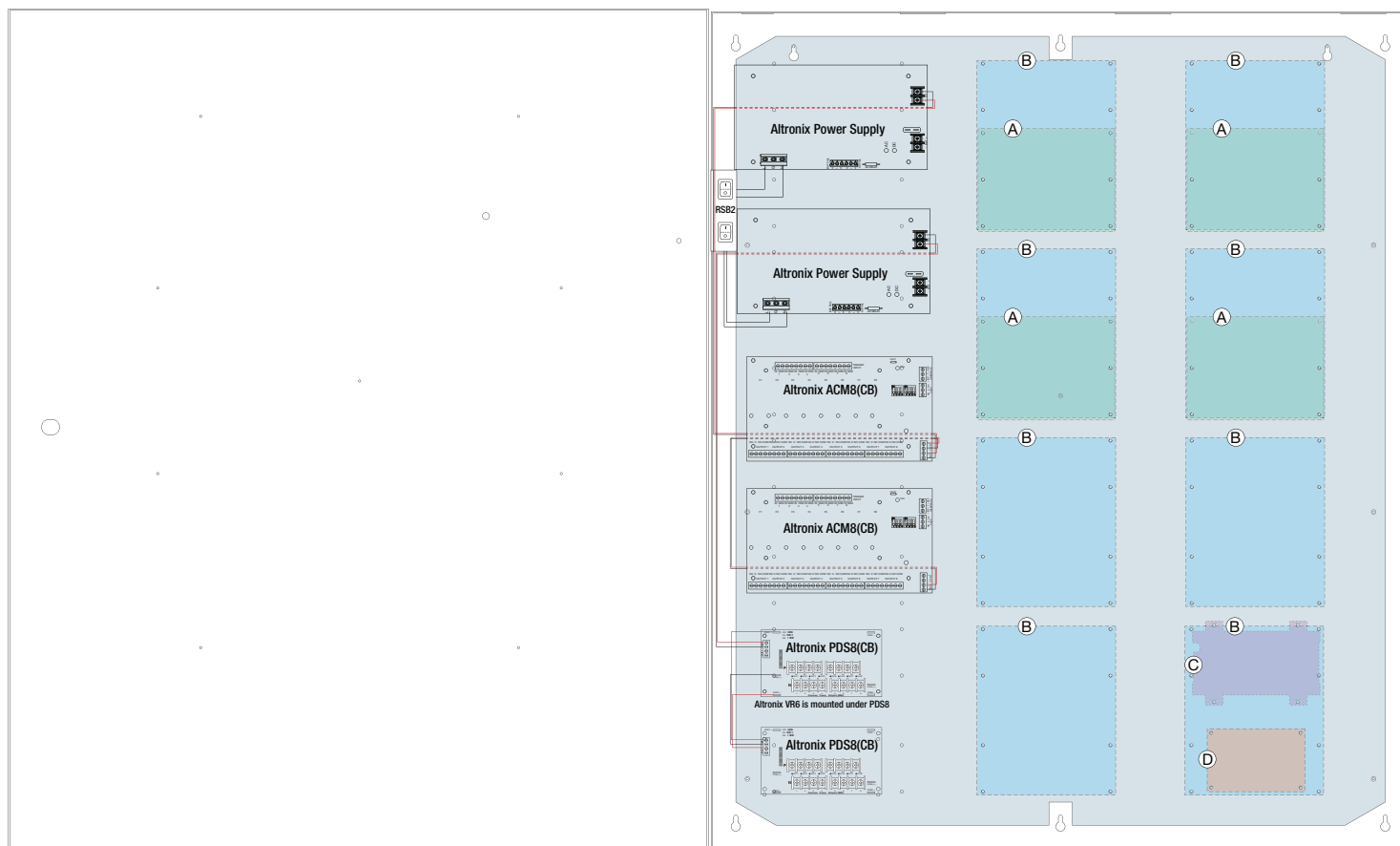
Operating	0°C to 49°C (32°F to 120°F)
Storage	-20°C to 70°C (-4°F to 158°F)

Relative Humidity	85% +/- 5%
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BTU/Hr (approx.):	289 BTU/Hr.
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**Access Controller Position Chart for the Following Models:**

Altronix/Mercury	Pem Mounting
LP2500, MUX8	(A)
LP1502, LP4502, MR52, MR16IN, MR16OUT	(B)
LP1501, MR62e	(C)
MR50	(D)



**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**

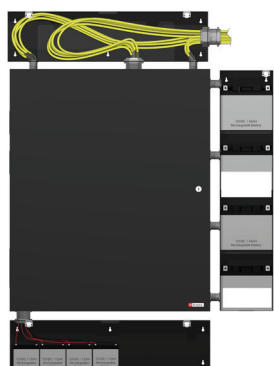
Altronix mounting magnets accommodate screws and nylon standoffs to allow for mounting various boards/ accessories in any metal enclosure or backplane.



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.

## 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)

