

#### Description

Altronix T3MK7516D kit consists of Trove3 enclosure and TM3 Mercury backplane with 24VDC @ 10A and 12VDC @ 10A power supply/chargers, eight (8) PTC protected output power distribution module and two eight (8) PTC protected output access control 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, Identocard, IMRON, Johnson Controls, Kastle, Keri Systems, Lenel/S2, LockState, Maxxess, Midpoint Security, NLSS, Open Options, Panasonic Video Insight, Quintron, RS2, Schneider Electric, Vanderbilt



T3MK7516D

#### Key Features

- 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)
  - One (1) double knockout  
1.948" (1.5" Conduit) / 1.701" (1.25" Conduit)
  - Sixteen (16) double knockouts  
1.362" (1" Conduit) / 1.115" (3/4" Conduit)
- 16 AWG galvanized steel backplane simplifies board layout and wire management
- Supervision
  - AC Fail
  - Supervision (*cont'd*)
    - 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
  - Enclosure accommodates up to four (4) 12VDC/12AH batteries
  - Lifetime Warranty\*

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

#### 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.

# T3MK7516D

## Access & Power Integration Solution

### Specifications

#### Power Supply 1 (AL1024ULXB2):

##### Input

Voltage	115VAC 60Hz, 4.2A max
Fusing	5A / 250V

##### Output

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

#### Power Supply 2 (AL1012ULXB):

##### Input

Voltage	115VAC, 60Hz, 2.6A max
Fusing	5A / 250V

##### Output

Voltage	12VDC
Current	10A @ 12VDC continuous max
Other	Overvoltage protection Filtered and regulated

#### Both Power Supplies:

##### Back-up Battery

Capacity	7AH /12VDC (4 within enclosure) 40 AH / 65 AH (requires separate enclosure)
Type	Sealed lead acid or gel type
Failover	Upon AC loss, instantaneous

##### 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

#### Two (2) Access Power Controllers (ACM8CB) (cont'd):

##### Outputs

Class 2 power-limited auto-resettable 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) 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

#### Power Distribution Module (PD8ULCB):

##### Input

Voltage	12VDC from AL1012ULXB
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##### Outputs

Class 2 power-limited auto-resettable outputs.

Voltage	12VDC
PTCs	2.5A

##### Indicators (LED)

Green LED	DC Output
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#### T3MK7516D 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)

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

###### Weight (approx.)

Product	84.2 lb. (38.2 kg)
Shipping	97.5 lb. (44.22 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.):	217 BTU/Hr
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**Access Controller Position Chart for the Following Models:**

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



