

## T3M77LXK3D (Pre-wired Kit)

Access and Power Integration Solution for Mercury



Altronix T3M77LXK3D is a 16-door access and power integration kit which includes Altronix power and sub-assemblies along with factory installed wire management and wire assemblies that are pre-configured with terminal blocks for Mercury hardware. This unit provides ample power and dual voltage outputs to support Mercury platform controllers and locking devices. The T3M77LXK3D accommodates up to eight (8) Dual Reader Interface Modules. Trove Plus simplifies field installations and provides reliable, robust critical power and control for the most demanding applications.



T3M77LXK3D - includes  
(2) AL1024ULXB2, (2) ACMS8CB, (2) VR6,  
(2) PDS8Cb, wire harnesses and finger duct

*Mercury boards are not included*

### \*Also compatible with these authentic Mercury partners:

AccessNsite, Avigilon, BadgePass, BluBox, Feenics, Genetec, Identocard, IMRON, Johnson Controls, Kastle, Keri Systems, LockState, Maxxess, Midpoint Security, NLS, Open Options, Panasonic i-PRO MonitorCast, Quintron, RS2, S2 Security, Schneider Electric, Vanderbilt.



## Key Features

- Accommodates the following Mercury controllers:
  - 8 - MR52
- Convenient knockout configuration:
  - One (1) single knockout - 2" Conduit
  - Two (2) double knockout - 1.25" Conduit and 1.5" Conduit
  - Thirteen (13) double knockouts - 3/4" Conduit and 1" Conduit
- Unit includes:
  - Removable backplane
  - 3" high finger duct for wire management
  - Custom Wire Harnesses for power distribution and controller connections
- 16 AWG galvanized steel backplane simplifies board layout and wire management
- Supervision
  - AC Fail
  - Low Battery 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.

## Specifications

### Two (2) Power Supplies (AL1024ULXB2):

#### Input

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

#### Outputs

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

#### Back-up Battery

Capacity	12AH /12VDC (2 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) Voltage Regulators (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) Access Power Controllers (ACMS8CB):

#### Input

Voltage	24VDC from AL1024ULXB2 and 12VDC from VR6
Input PTC	9A

#### Outputs

Voltage	12VDC and/or 24VDC
Eight (8) 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 PTCs	2.5A
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#### Indicators (LED)

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

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

#### Input

Voltage	12VDC from VR6 and 24VDC from AL1024ULXB2
Input PTC	9A

#### Outputs

Voltage	12VDC and/or 24VDC
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	

#### Outputs Ratings

PTCs	2.5A
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#### Indicators (LED)

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

### T3M77LXK3D 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)
Shipping:	40.75" x 35.25" x 12" (1035.1mm x 895.4mm x 304.8mm)

##### Weight (approx.)

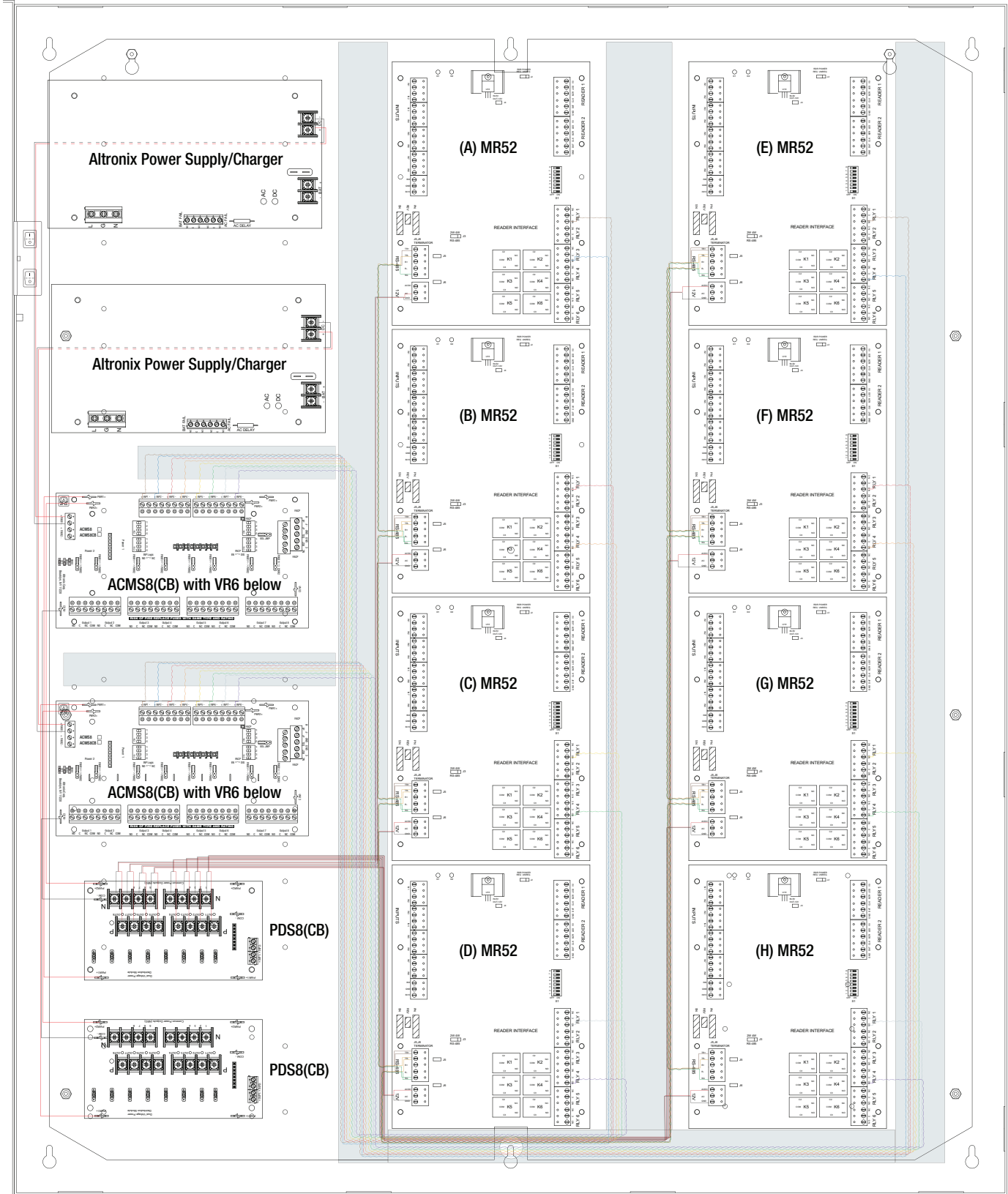
Product:	85.6 lb. (38.83 kg)
Shipping:	98.8 lb. (44.82 kg)

##### Temperature

Operating	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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**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)

