

# T2MK78D

## Access & Power Integration Solution



Altronix T2MK78D kit consists of Trove2 enclosure and TM2 Altronix & Mercury backplane with 24VDC @ 10A power supply/charger, 12VDC voltage regulator, eight (8) PTC protected output dual voltage power distribution module and eight (8) PTC protected output access control module. This kit also accommodates various combinations of Mercury\* boards for up to eight (8) 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



T2MK78D

### 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)
  - 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.

**Specifications**
**Power Supply (AL1024ULXB2):**
**Input**

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

**Outputs**

Voltage	24VDC
Current	10A @ 24VDC continuous max
Other	Oversvoltage 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

**Dual Input Power Distribution Module (PDS8CB):**
**Input**

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

**Outputs**

Class 2 power-limited auto-resettable 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

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

Voltage	24VDC from AL1024ULXB2
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**Voltage Regulator (VR6) (cont'd):**
**Output**

Voltage	12VDC
Current	6A continuous
Other	Surge suppression

**Indicators (LED)**

Input	24VDC is present
Output	Powered

**Access Power Controller (ACM8CB):**
**Input**

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

**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

**T2MK78D 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)**

27.25" x 21.5" x 6.5" (692.2mm x 546.1mm x 165.1mm)

**Weight (approx.)**

Product	40.1 lb. (18.2 kg)
Shipping	43.85 lb. (19.9 kg)

**Temperature**

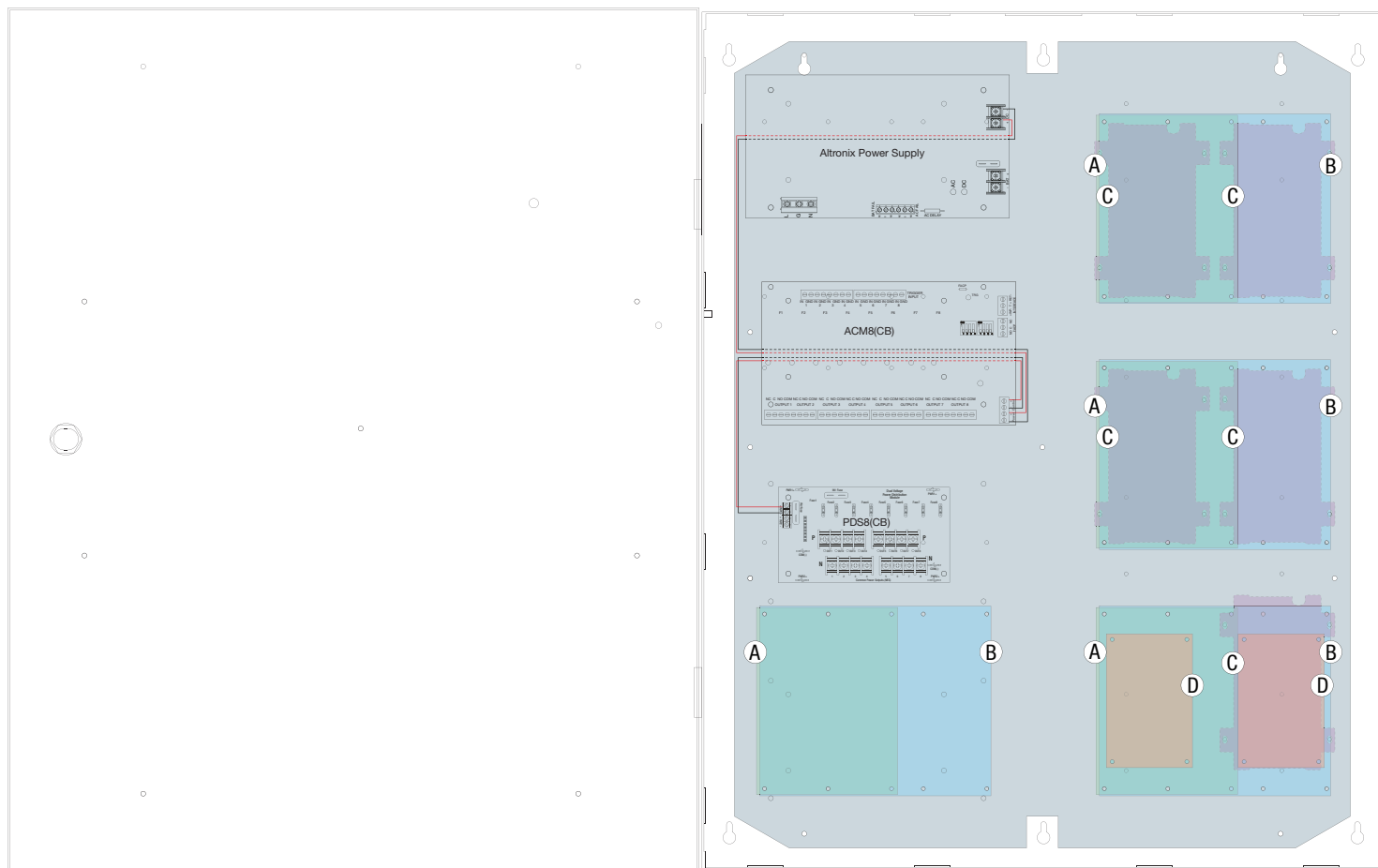
Operating	0°C to 49°C (32°F to 120°F)
Storage	-20°C to 70°C (-4°F to 158°F)

Relative Humidity	85% +/-5%
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BTU/Hr. (approx.):	145 BTU/Hr
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**Access Controller Position Chart for the Following Models:**

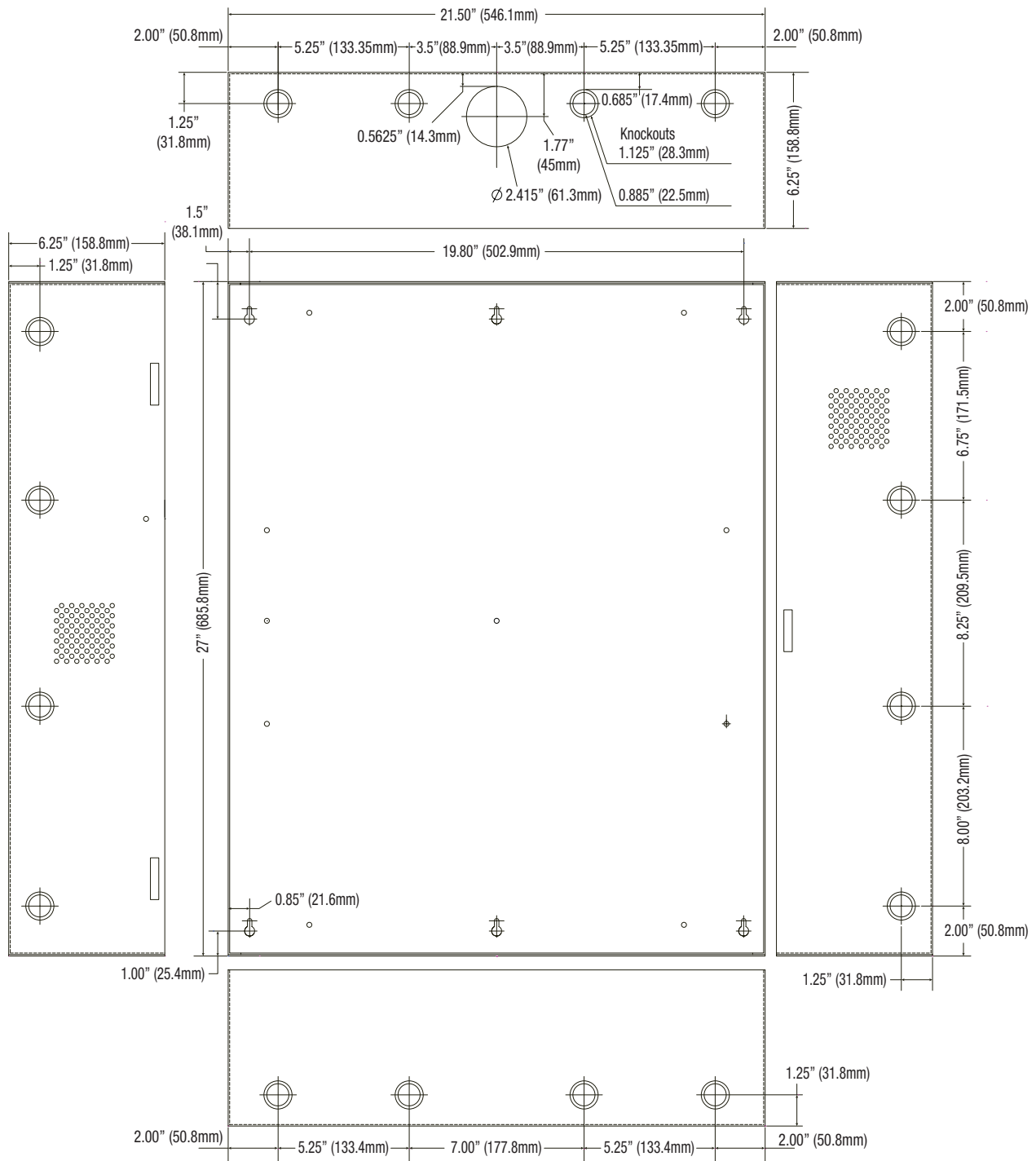
Mercury	Pem Mounting
LP2500, MUX8	(A)
LP1502, LP4502, MR52, MR16IN, MR16OUT	(B)
LP1501, MR62e	(C)
MR50	(D)



**Dimensions and Drawing**

Dimensions (H x W x D approximate)

27.25" x 21.5" x 6.5" (692.2mm x 546.1mm x 165.1mm)



**Lifetime Warranty**