

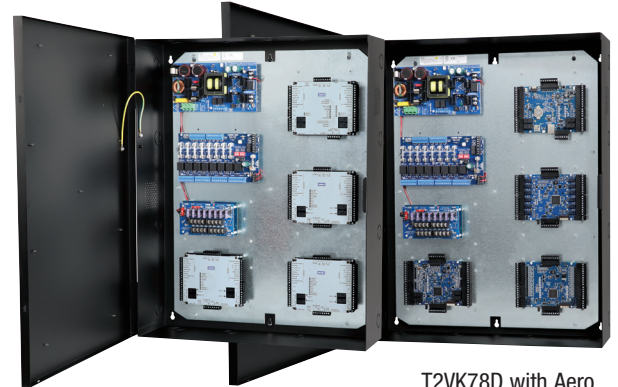
## T2VK78D (Kit)

Access & Power Integration Solution for HID Aero/VertX



Altronix T2VK78D kit consists of Trove2 enclosure, TV2 HID Aero/VertX/Altronix backplane with one (1) 24VDC @ 10A power supply/charger, one (1) PTC access power controller, one (1) voltage regulator and one (1) dual input PTC power distribution module.

This kit also accommodates up to four (4) HID Aero/VertX modules for up to eight (8) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.



T2VK78D with Aero boards in cases

T2VK78D with Aero boards no cases

*HID Aero/VertX modules are not included*

### Key Features

- 24VDC power supply/charger
- Accommodates up to four (4) VertX<sup>®</sup> V100, V200, V300, V1000, V2000 or Aero X100, X200, X300, X1100 modules
- Convenient knockout configuration:
  - One (1) single knockout 2.415" (2" Conduit)
  - Sixteen (16) double knockouts 1.362" (1" Conduit) / 1.115" (3/4" Conduit)
- Supervision
  - AC Fail
  - Battery Fail and Battery Presence
- 16 AWG galvanized steel backplane simplifies board layout and wire management
- Enclosure accommodates up to four (4) 12VDC/12AH batteries
- 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*

**Specifications**

**Power Supply (AL1024ULXB2):**

**Input**

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

**Outputs**

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)  
 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

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

**Input**

Voltage 12VDC from VR6 and  
 24VDC from AL1024ULXB2  
 Input PTCs 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  
 Output PTCs 2.5A

**Indicators (LED)**

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

**Voltage Regulator (VR6):**

**Input**

Voltage 24VDC from AL1024ULXB2

**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**

Voltage 24VDC  
 Eight (8) 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

**Indicators (LED)**

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

**T2VK78D 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:  
 27.25" x 21.5" x 6.5" (692.2mm x 546.1mm x 165.1mm)  
 Shipping:  
 32.5" x 26.5" x 11.125" (825.5mm x 673.1mm x 282.6mm)

**Weight (approx.)**

Product: 47 lb. (21.3 kg)  
 Shipping: 51.35 lb. (23.3 kg)

**Temperature**

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

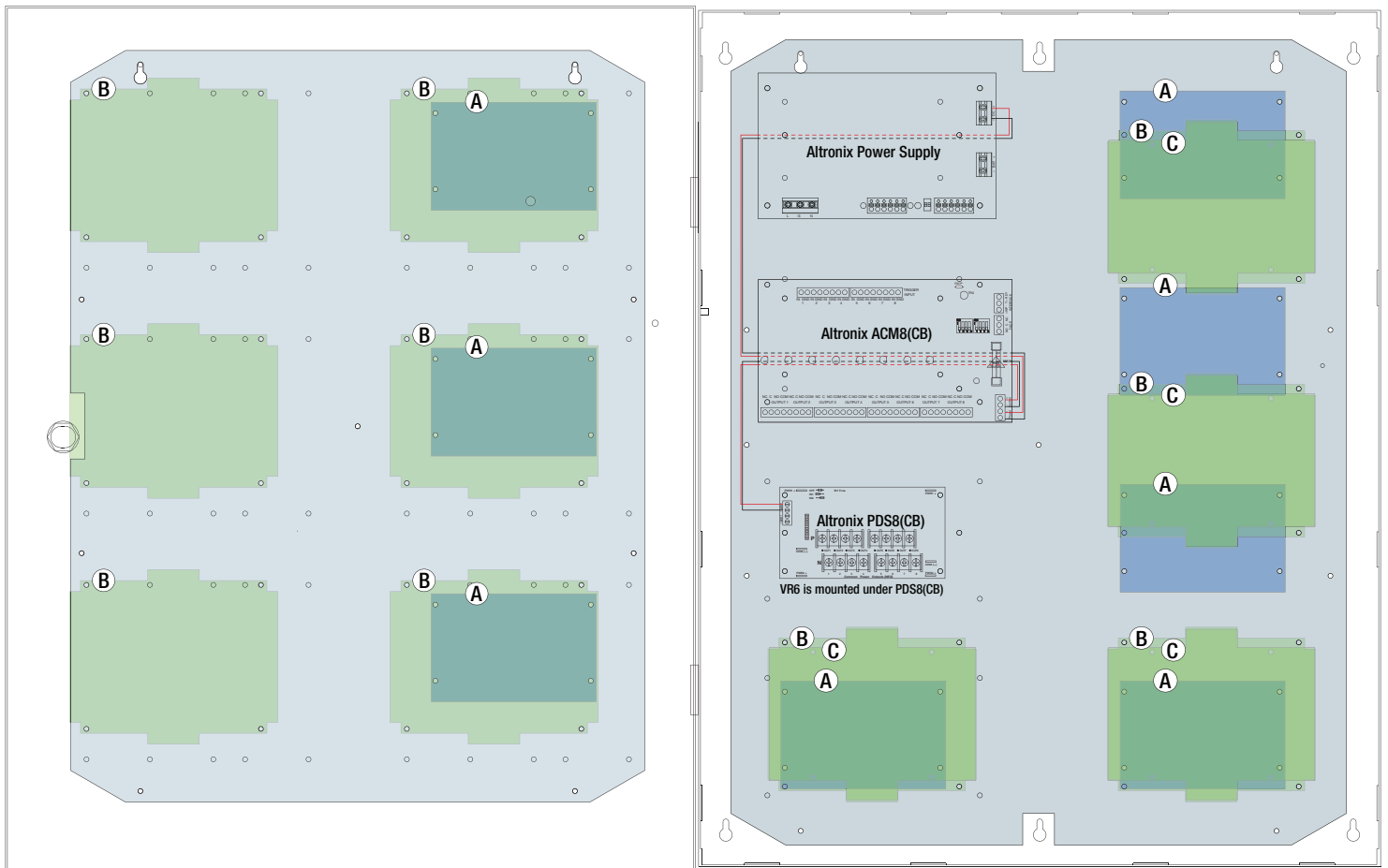
Relative Humidity 85% +/- 5%

BTU/Hr. (approx.): 145 BTU/Hr.

**Access Controller Position Chart for the Following Models:**

Altronix / HID Aero/VertX	Pem Mounting
ACM4, ACM4CB, ACM8, ACM8CB, ACMS8, ACMS8CB, ACMS12, ACMS12CB, LINQ8ACM, LINQ8ACMCB, LINQ8PD, LINQ8PDCB, MOM5, PD4UL, PD4ULCB, PD8UL, PD8ULCB, PDS8, PDS8CB, PDS16, PDS16CB, VR6, GB1 (accommodates Genetec Synergis Cloud Link)	(A)
Aero™: X100, X200, X300, X1100	(B)
Aero™: X100, X200, X300, X1100 (without case on TV2 only)	(C)

TMV2 Door Backplane (Order Separately)



**Accessories** (order separately)



WM5

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

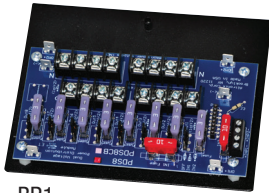
Altronix WM5, WM25, and WM100 are packs of 5, 25 or 100 magnetic cable tie mounts respectively. They accommodate standard zip ties or velcro straps. These are ideal for wire management in our Trove series.



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.



Trove2BWC  
with  
batteries

**TROVE2BWC - Battery/Wire Trough Enclosure**

Altronix Trove2BWC is a dual-purpose enclosure that can be used as wiring trough or battery cabinet when mounted above or below of the Trove2 integrated power and access solution. The knockouts on the Trove2BWC have been strategically placed to line up with the Trove2 allowing for easy conduit connections between cabinets. Trove2BWC includes cam locks and 2 tamper switches to ensure access to wiring and batteries is secure.



Trove2BWC  
with  
wires

**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)

