

T2VK78 (Kit)

Access & Power Integration Solution for HID - Aero/VertX®

TROVE™

Altronix T2VK78 kit consists of Trove2 enclosure, TV2 HID®/Altronix backplane with one (1) 24VDC @ 10A power supply/charger, one (1) 8-output fused access power controller, one (1) voltage regulator and one (1) 8-output fused dual input 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.



T2VK78 with Aero boards in cases

T2VK78 with Aero boards no cases

**VertX/Aero modules boards are not included*

Key Features

- 24VDC power supply/charger
- Accommodates up to four (4) VertX® 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)
- 16 AWG galvanized steel backplane simplifies board layout and wire management
- Supervision
 - AC Fail
 - 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	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

Dual Input Power Distribution Module (PDS8):

Input

Voltage	12VDC from VR6 and 24VDC from AL1024ULXB2
Input Fuse	10A/32V

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

Fuses	3A/32V
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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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Output

Voltage	12VDC
Current	6A continuous
Other	Surge suppression

Voltage Regulator (VR6) (cont'd):

Indicators (LED)

Input	24VDC is present
Output	Powered

Access Power Controller (ACM8):

Input

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

Outputs

Voltage	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 Fuses	3.5A/250V
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Indicators (LED)

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

T2VK78 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:	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)

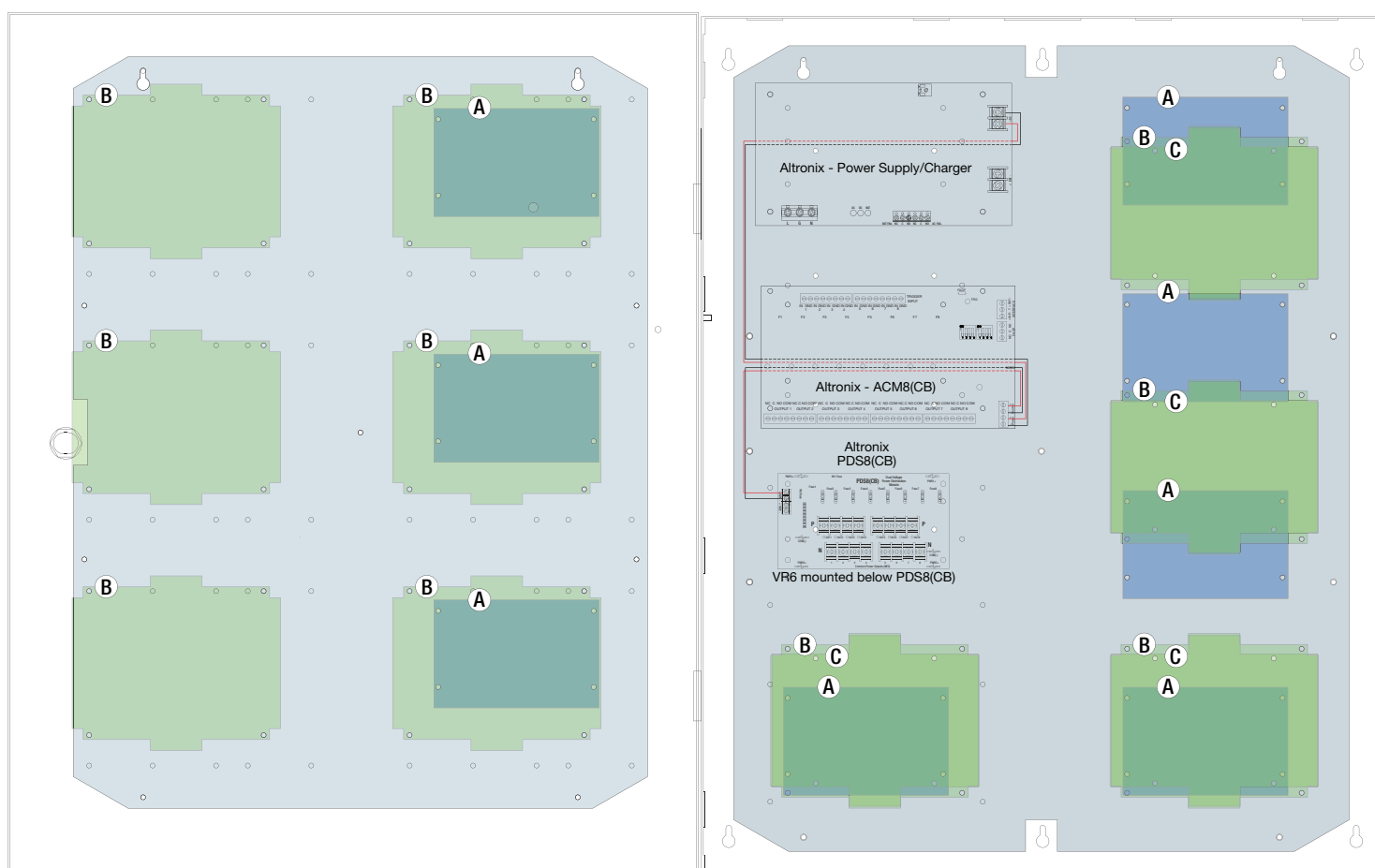
Relative Humidity	85% +/- 5%
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BTU/Hr. (approx.):	145 BTU/Hr.
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Access Controller Position Chart for the Following Models:

Altronix / HID VertX / Aero	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)



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)

