

**T3VK7520V (Kit)**

Access &amp; Power Integration Solution for HID Aero/VertX

**TROVE™**

Altronix T3VK7520V kit consists of Trove3 enclosure, TV3 HID Aero/VertX/Altronix backplane with one (1) 24VDC @ 10A and one (1) 12VDC @ 10A power supply/chargers, two (2) 8-output fused access power controllers, one (1) 4-output fused access power controller and one (1) 8-output fused power distribution module. Also featured is a rocker switch bracket with two (2) rocker switches.

This kit also accommodate up to ten (10) HID Aero/VertX modules for up to twenty (20) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.

T3VK7520V with Aero  
boards in casesT3VK7520V with Aero  
boards no cases*\*VertX/Aero modules are not included***Key Features**

- One (1) 24VDC and one (1) 12VDC power supply/chargers
- Accommodates up to ten (10) VertX® V100, V200, V300, V1000, V2000 or Aero X100, X200, X300, X1100 modules
- Convenient knockout configuration:
  - One (1) single knockout 2.415" (2" Conduit)
  - Two (2) double knockouts 1.948" (1.5" Conduit) / 1.701" (1.25" Conduit)
  - Thirteen (13) double knockouts 1.362" (1" Conduit) / 1.115" (3/4" Conduit)
- Supervision
  - AC Fail
  - Low Battery and Battery Presence
- 16 AWG galvanized steel backplane simplifies board layout and wire management
- Enclosure accommodates up to four (4) 12VDC/12AH batteries
- CE European Conformity
- Lifetime Warranty\*

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

**Specifications****Power Supply 1 (AL1024XB2V):****Input**

Voltage 220VAC (working range 198VAC-256VAC),  
50/60Hz, 2.5A

Input Fuse 5A/250V

**Output**

Voltage 24VDC

Current 10A @ 24VDC continuous max.

Other Overvoltage protection. Filtered and regulated

**Power Supply 2 (AL1012XB220):****Input**

Voltage 220VAC (working range 198VAC-256VAC),  
50/60Hz, 1.3A

Input Fuse 5A/250V

**Output**

Voltage 12VDC

Current 10A @ 12VDC continuous max.

Other Overvoltage protection. Filtered and regulated

**Both Power Supplies:****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 220VAC is present

DC Output Powered

Battery Discharged or not connected

**Two (2) Access Power Controllers (ACM8):****Input**

Voltage 24VDC from AL1024XB2V

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

**Indicators (LED)**

Red LEDs Outputs are triggered (relays energized)

Green LED FACP disconnect is triggered

**Access Power Controller (ACM4):****Input**

Voltage 24VDC from AL1024XB2V

Input Fuse 10A/32V

**Outputs**

Voltage 24VDC

Four (4) 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 3A/32V

**Indicators (LED)**

Red LEDs Outputs are triggered (relays energized)

Green LED FACP disconnect is triggered

**Power Distribution Module (PD8UL):****Input**

Voltage 12VDC from AL1012XB220

**Outputs**

Voltage 12VDC

Output Fuses 3.5A/250V

**Indicators (LED)**

Green LED DC Output

**T3VK7520V Kit:****Agency Listings**

CE European Conformity

**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 lb. (38.6 kg)

Shipping: 92 lb. (41.73 kg)

**Temperature**

Operating: 0°C to 49°C (32°F to 120°F)

Storage: -20°C to 70°C (-4°F to 158°F)

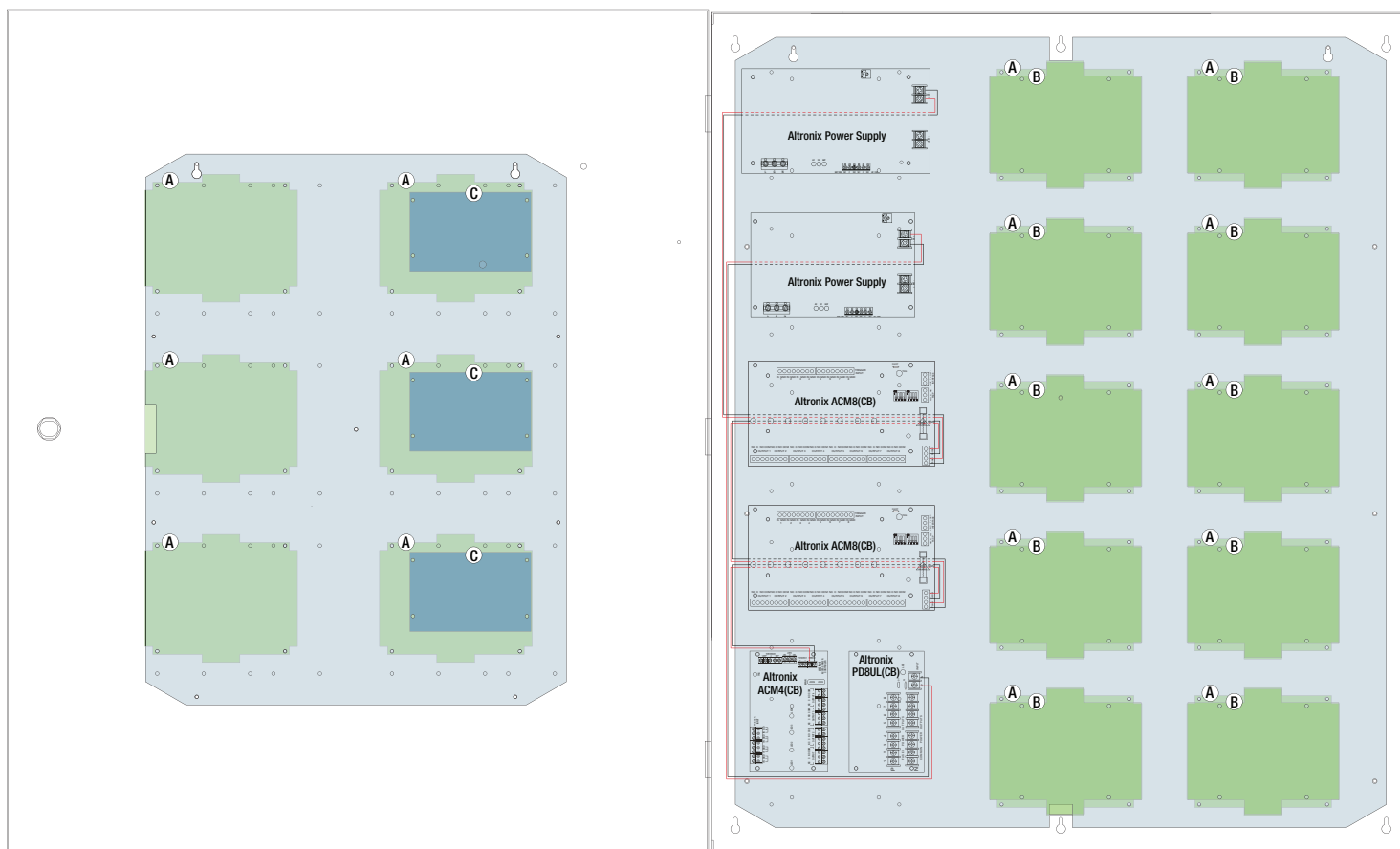
Relative Humidity 85% +/- 5%

BTU/Hr. (approx.): 177 BTU/Hr.

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

Altronix / HID Aero/VertX	Pem Mounting
Aero™: X100, X200, X300, X1100	(A)
Aero™: X100, X200, X300, X1100 (without case on TV3 only)	(B)
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)	(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

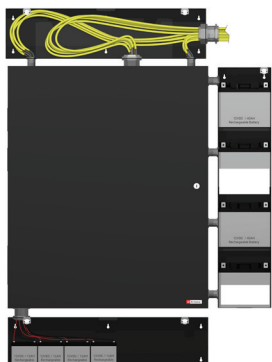
Altronix mounting magnets accommodate screws and nylon standoffs to allow for mounting various boards/ accessories in any metal enclosure or backplane.



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.



#### TROVE3BWC / TROVE3SWC - Battery/Wire Trough Enclosure

Altronix Trove3BWC and Trove3SWC are dual-purpose enclosures that can be used as wiring troughs or battery cabinets when mounted above or below (Trove3BWC) or on either side (Trove3SWC) of the Trove integrated power and access solution. The knockouts on the Trove3BWC and Trove3SWC have been strategically placed to line up with the Trove3 allowing for easy conduit connections between cabinets. Trove3BWC and Trove3SWC include cam locks and 2 tamper switches each to ensure access to wiring and batteries is secure.

*Typical battery/wiring setup with Trove3 Enclosure (not included)*

## T3VK7520V (Kit)

## Access & Power Integration Solution for HID Aero/VertX



Trove

## Dimensions and Drawing

Dimensions (H x W x D approximate)

36.12" x 30.12" x 7.06" (917.5mm x 768.1mm x 179.3mm)

