

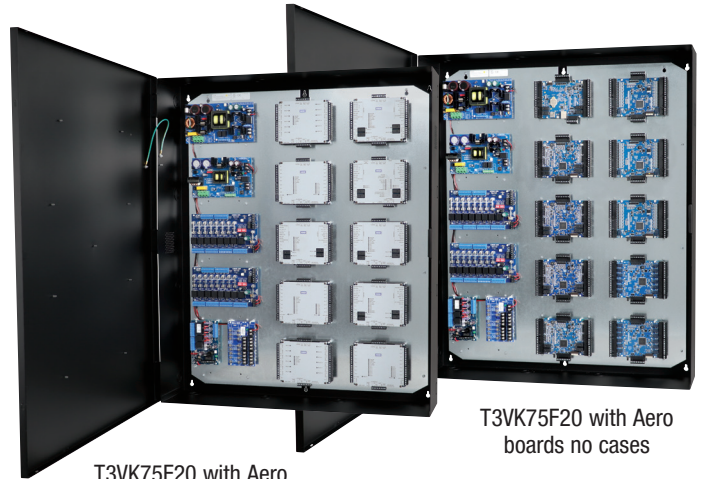
T3VK75F20 (Kit)

Access & Power Integration Solution for HID Aero/VertX



Altronix T3VK75F20 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.

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.



T3VK75F20 with Aero boards in cases

T3VK75F20 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)
 - One (1) double knockout 1.948" (1.5" Conduit) / 1.701" (1.25" Conduit)
 - Sixteen (16) double knockouts 1.362" (1" Conduit) / 1.115" (3/4" Conduit)
- Supervision
 - AC Fail
 - Low Battery and Battery Presence
 - Low power shutdown
- 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
- 16 AWG galvanized steel backplane simplifies board layout and wire management
- Enclosure accommodates up to four (4) 12VDC/12AH batteries
- Lifetime Warranty*

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

Specifications

Power Supply 1 (eFlow104NB):

Input

Voltage 120VAC, 60Hz, 4.5A max.
 Input Fuse 6.3A/250V

Output

Voltage 24VDC
 Current 10A continuous

Power Supply 2 (eFlow102NB):

Input

Voltage 120VAC, 60Hz, 3.5A max.
 Input Fuse 5A/250V

Output

Voltage 12VDC
 Current 10A continuous

Both Power Supplies:

Outputs

Auxiliary Class 2 power-limited @ 1A (unswitched)
 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

Fire Alarm Disconnect

Supervised Latching or non-latching
 EOL 10K Resistor

Supervision

AC Failure Form "C" contacts
 Battery Form "C" contacts

Low DC Power Shutdown

Shuts down DC output terminals if battery voltage drops below 70-75% for 24V units or 71-73% for 12V units. Prevents deep battery discharge

Indicators (LED)

AC Input 120VAC is present
 DC Output Powered

Two (2) Access Power Controllers (ACM8):

Input

Voltage 24VDC from eFlow104NB
 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 eFlow104NB
 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 eFlow102NB

Outputs

Voltage 12VDC
 Eight (8) fuse protected outputs
 3.5A per output max
 Output Fuses 3.5A/250V

Indicators (LED)

Green LED DC Output

T3VK75F20 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: 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)

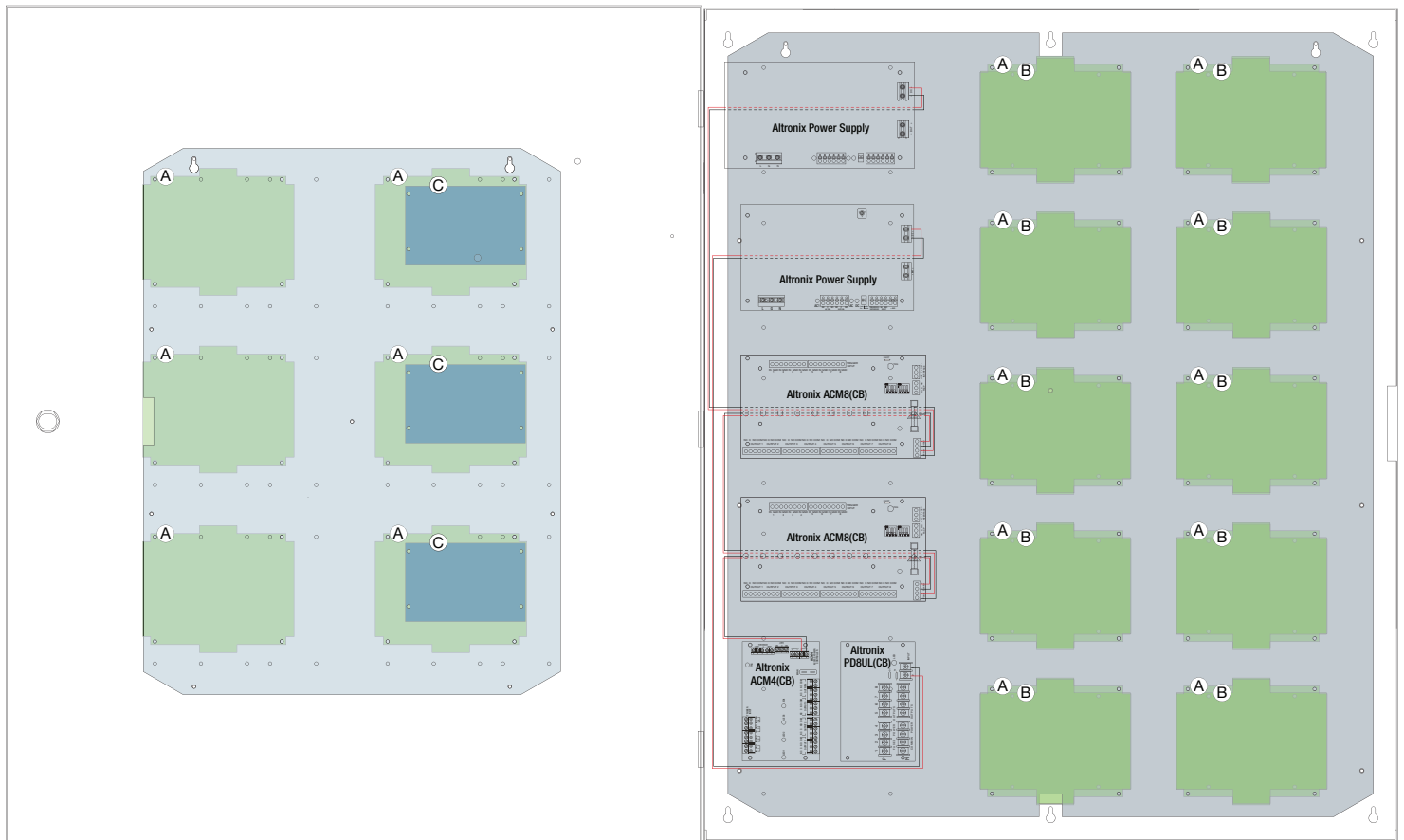
Relative Humidity 85% +/- 5%

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)



LINQ2

LINQ2 - Network Supervision

Altronix LINQ2 Network Communication Module provides remote supervision, control and monitoring over LAN/WAN

- Remotely reports accurate power diagnostics
- Controls power and resets devices
- Reports system diagnostics via Email



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

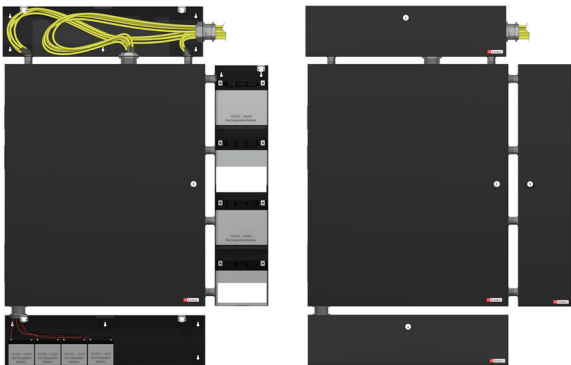
Altronix mounting magnets accommodate screws and nylon standoffs to allow for mounting various boards/ accessories in any metal enclosure or backplane.



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)

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)

