

## T3VK77F16S (Kit)

Access & Power Integration Solution for HID Aero

Altronix T3VK77F16S kit consists of Trove3 enclosure, TV3 HID Aero/Altronix backplane with two (2) 24VDC @ 10A power supply/chargers, two (2) 10A voltage regulators, two (2) 8-output dual input fused access power controllers and three (3) 16-output dual input fused power distribution modules.

This kit also accommodates HID Aero modules for up to sixteen (16) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.



# TROVE™



T3VK77F16S

*\*Aero modules are not included*

### Key Features

- 24VDC power supply/chargers
- Accommodates up to ten (10) Aero® 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
  - Low power shutdown
- 16 gauge 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**

**Two (2) Power Supply/Chargers (eFlow104NB):**

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

**Output**  
 Voltage 24VDC  
 Current 10A continuous  
 Auxiliary Class 2 power-limited @ 1A (unswitched)  
 Other Overvoltage protection. Filtered and regulated

**Battery Charging**  
 Capacity 12VDC/12AH (4 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. Prevents deep battery discharge

**Indicators (LED)**  
 AC Input 120VAC is present  
 DC Output Powered

**Two (2) Voltage Regulators (VR10):**

**Input**  
 Voltage 24VDC from eFlow104NB

**Output**  
 Voltage 12VDC  
 Current 10A continuous  
 Other Surge suppression

**Indicators (LED)**  
 Input 24VDC is present  
 Output Powered

**Three (3) Dual Input Power Distribution Modules (PDS16):**

**Input**  
 Voltage 24VDC from eFlow104NB and 12VDC from VR10  
 Input Fuses 15A/32V

**Outputs**  
 Voltage 12VDC and/or 24VDC  
 Any of the sixteen (16) power outputs are selectable to follow power Input 1 or Input 2  
 Individual outputs may be set to OFF position for servicing  
 Output Fuses 3A/32V

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

**Two (2) Dual Input Access Power Controllers (ACMS8):**

**Input**  
 Voltage 24VDC from eFlow104NB and 12VDC from VR10  
 Input Fuses 15A/32V

**Outputs**  
 Voltage 12 or 24VDC individually selectable  
 Eight (8) selectable 12VDC - 24VDC independently controlled outputs or eight (8) independently controlled Form "C" relay outputs:  
 a) Fail-Safe and/or Fail-Secure power outputs  
 b) Form "C" Relays. 28VAC or VDC @ 2.5A Rated  
 c) Auxiliary power outputs (unswitched)  
 d) Any combination of the above

Any of the eight (8) fuse protected power outputs are selectable to follow power Input 1 or Input 2

Individual outputs may be set to OFF position for servicing  
 Output Fuses 3A/32V

**Indicators (LED)**  
 Red LEDs Outputs are triggered (relays energized)  
 Blue LED FACP disconnect is triggered

**Individual voltage LEDs:**  
 Green: 12VDC  
 Red: 24VDC

**T3VK77F16S 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.):** 240 BTU/Hr.

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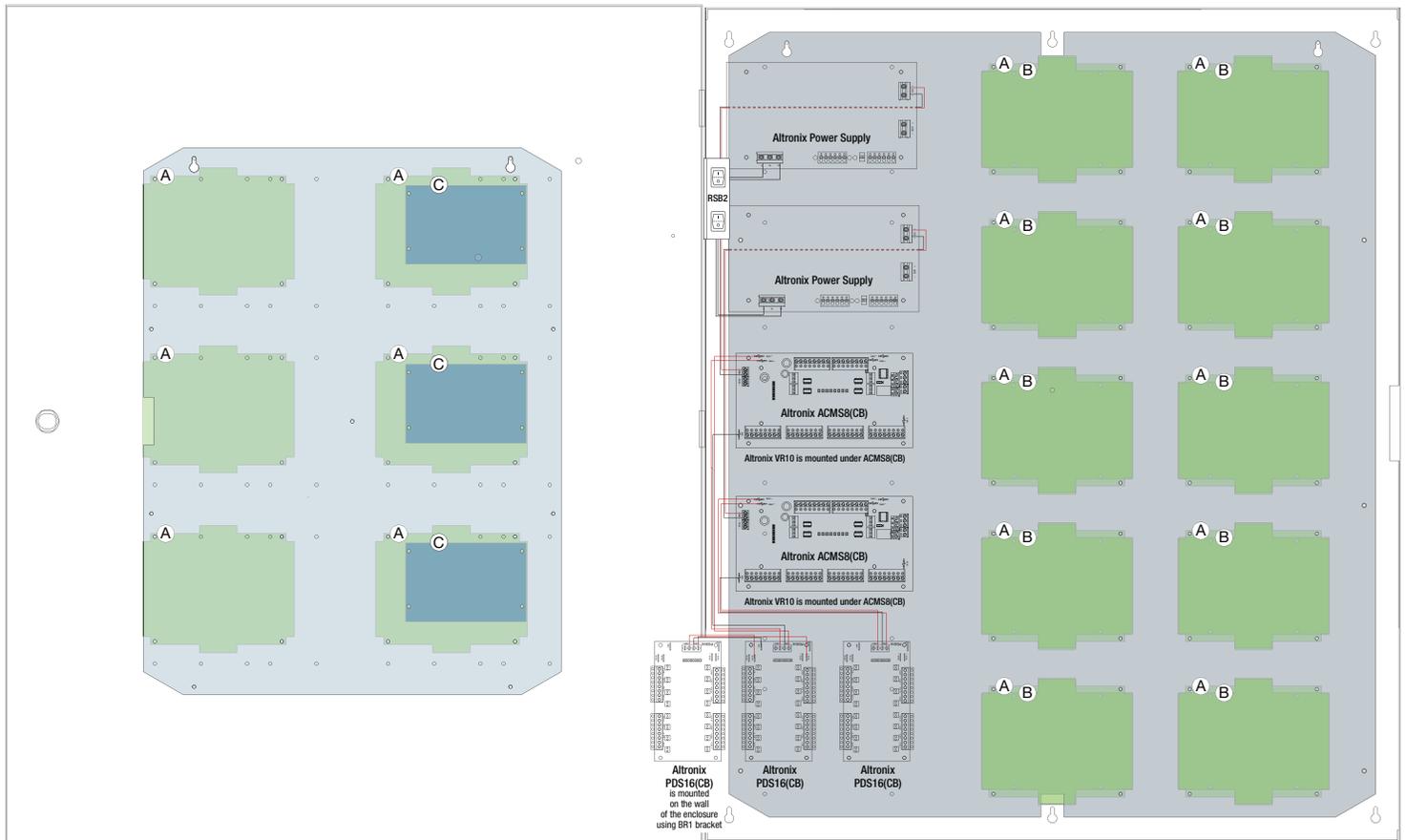
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## Access Controller Position Chart for the Following Models:

Altronix / HID Aero	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**

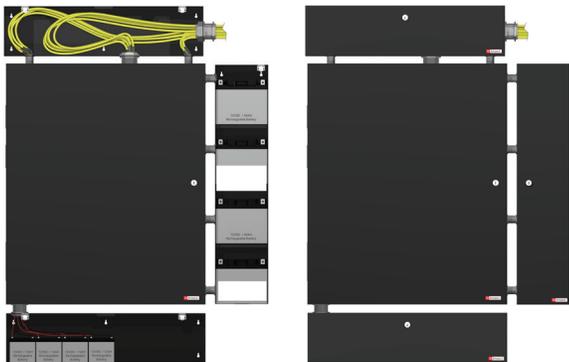
Altronix mounting magnets accommodate screws and nylon standoffs to allow for mounting various boards/ accessories in any metal enclosure or backplane.



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)

