

# T1VK3F4D (Kit)

Access & Power Integration Solution for HID Aero/VertX



Altronix T1VK3F4D kit consists of Trove1 enclosure, TV1 HID Aero/VertX/Altronix backplane with one (1) 12 or 24VDC @ 6A 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 two (2) HID Aero/VertX modules for up to four (4) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.



T1VK3F4D

*HID Aero/VertX modules are not included*

## Key Features

- 12 or 24VDC power supply/charger
- Accommodates up to two (2) VertX V100, V200, V300, V1000, V2000 or Aero X100, X200, X300, X1100 modules
- Convenient knockout configuration:
  - One (1) double knockout  
1.948" (1-1/2" Conduit) / 1.701" (1-1/4" Conduit)
  - Nine (9) 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 gauge galvanized steel backplane simplifies board layout and wire management
- Enclosure accommodates up to two (2) 12VDC/7AH batteries.
- Lifetime Warranty\*

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

## 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.

**Specifications**

**Power Supply/Charger (eFlow6NB):**

**Input**

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

**Outputs**

Voltage 12VDC or 24VDC selectable  
 Current 6A continuous max.  
 Auxiliary Power-limited @ 1A (unswitched)  
 Other Overvoltage protection. Filtered and regulated

**Battery Charging**

Capacity 7AH/12VDC (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 71-73% for 12V units and 70-75% for 24V units (depending on the power supply). Prevents deep battery discharge

**Indicators (LED)**

Input 120VAC is present  
 DC Output Powered

**Access Power Controller (ACM4CB):**

**Input**

Voltage 24VDC from eFlow6NB  
 Input PTC 9A

**Outputs**

Voltage 24VDC  
 Four (4) 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

**Voltage Regulator (VR6):**

**Input**

Voltage 24VDC from eFlow6NB

**Output**

Voltage 12VDC  
 Current 6A continuous  
 Other Surge suppression

**Indicators (LED)**

Input 24VDC is present  
 Output Powered

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

**Input**

Voltage 24VDC from eFlow6NB and 12VDC from VR6  
 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

**T1VK3F4D 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: 18" x 14.5" x 4.62" (457.2mm x 368.3mm x 118.0mm)  
 Shipping: 21.75" x 18.25" x 5.75" (552.5mm x 463.6mm x 146.1mm)

**Weight (approx.)**

Product: 15.5 lb. (7.0 kg)  
 Shipping: 19.5 lb. (8.9 kg)

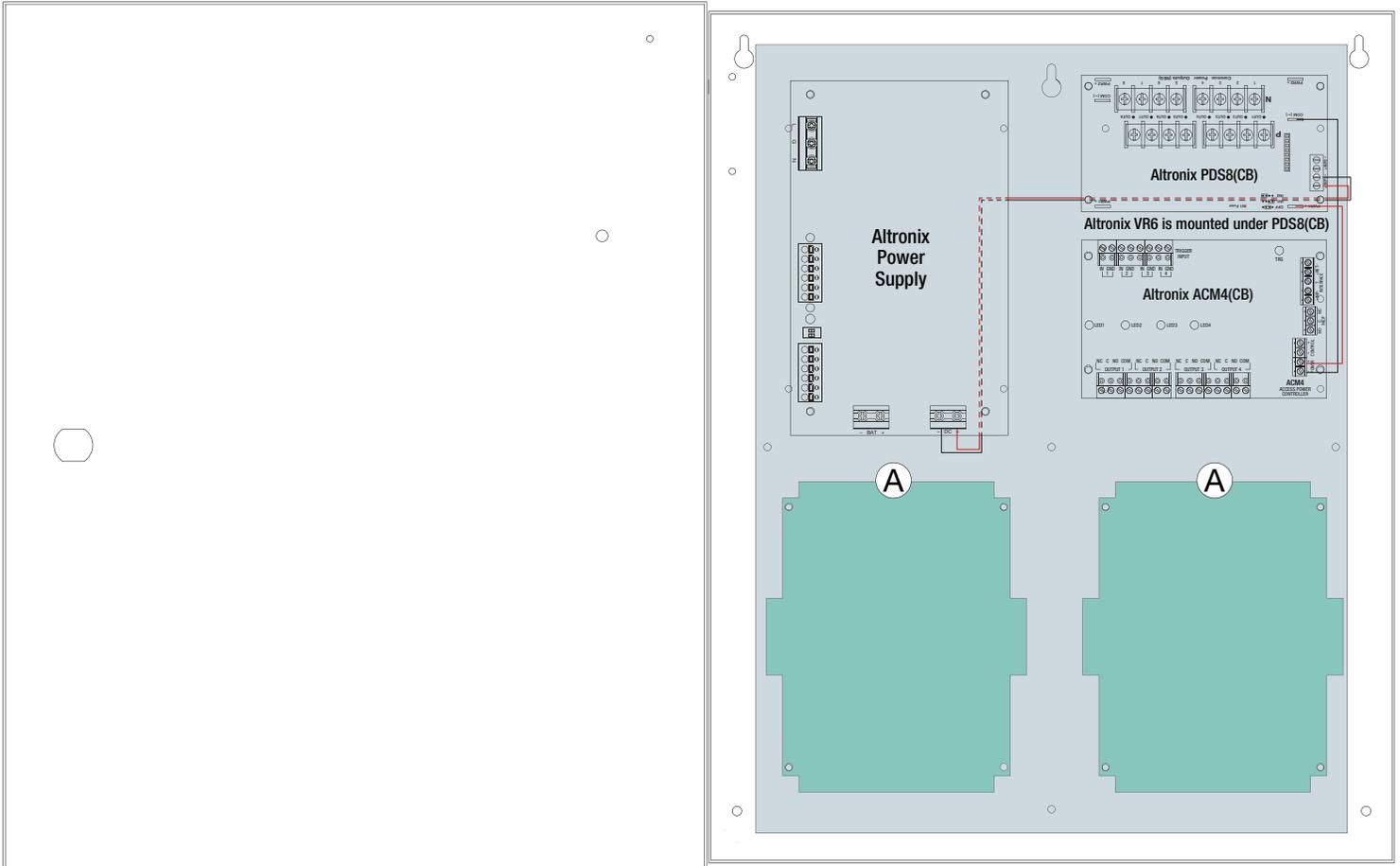
**Temperature**

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.): 87 BTU/Hr.

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

HID Aero/VertX	Pem Mounting
V100, V200, V300, V1000, V2000, X100, X200, X300, X1100	A



**Dimensions and Drawing**

Dimensions (H x W x D approximate)  
 18.0" x 14.5" x 4.625" (457.2mm x 368.3mm x 118mm)

