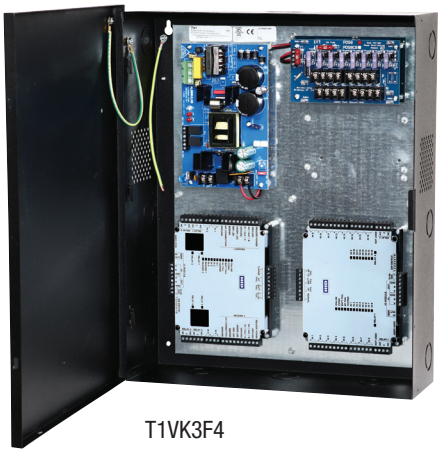
Rev. 08172022

T1VK34D (Kit)

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

Altronix T1VK34D kit consists of Trove1 enclosure, TV1 VertX®/Altronix backplane with one (1) 12 or 24VDC @ 6A power supply/charger, 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.



T1VK3F4

VertX/Aero modules sold separately

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)
- 16 AWG galvanized steel backplane simplifies board layout and wire management
- Enclosure accommodates up to two (2) 12VDC/7AH batteries
- 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
- Lifetime Warranty*

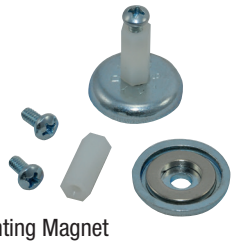
**Altronix Power Supply/Chargers and Sub-Assemblies only*

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.

Altronix Corporation | 140 58th St | Brooklyn, NY 11220 USA
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Altronix®

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TROVE™

Specifications

Power Supply (AL600ULXB):

Input

Voltage	115VAC, 60Hz, 3.5A max.
Fusing	5A/250V.

Output

Voltage	12VDC or 24VDC selectable
Current	6A @ 12VDC or 24VDC continuous max.
Other	Overvoltage protection Filtered and regulated

Battery Backup

Capacity	7AH/12VDC (Up to 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

Voltage Regulator (VR6):

Input

Voltage	24VDC from AL600ULXB

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	12VDC from VR6 and 24VDC from AL1024ULXB2
Input PTC	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

Outputs Ratings

PTCs	2.5A

Indicators (LED)

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

T1VK34D 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	0ºC to 49ºC (32ºF to 120ºF)
Storage	– 20ºC to 70ºC (– 4ºF to 158ºF)
Relative Humidity	85% +/– 5%
BTU/Hr. (approx.):	87 BTU/Hr

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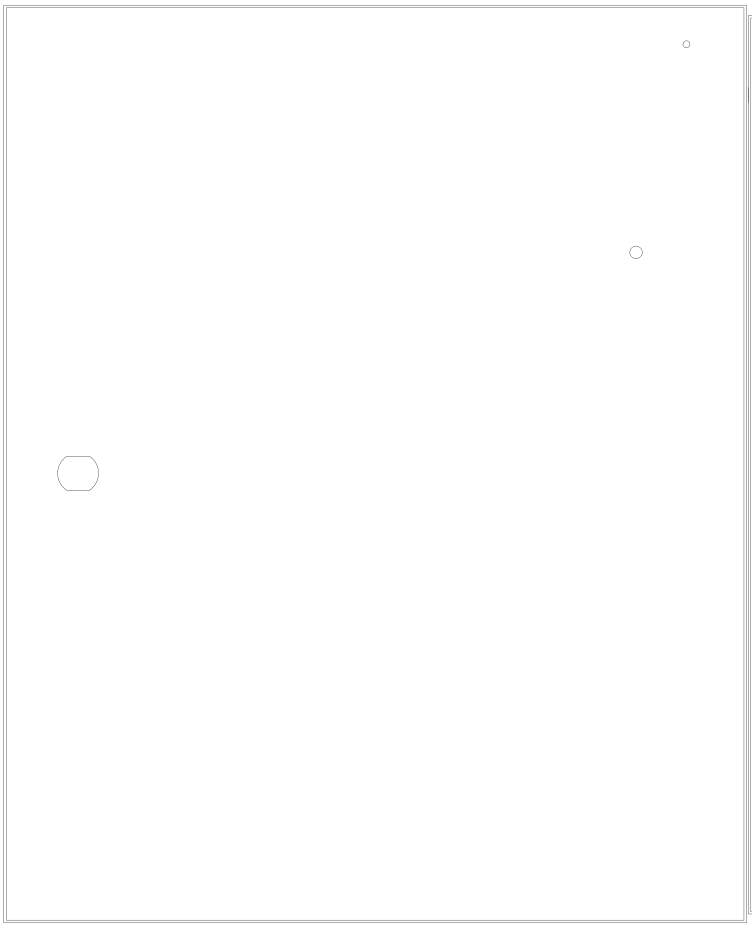
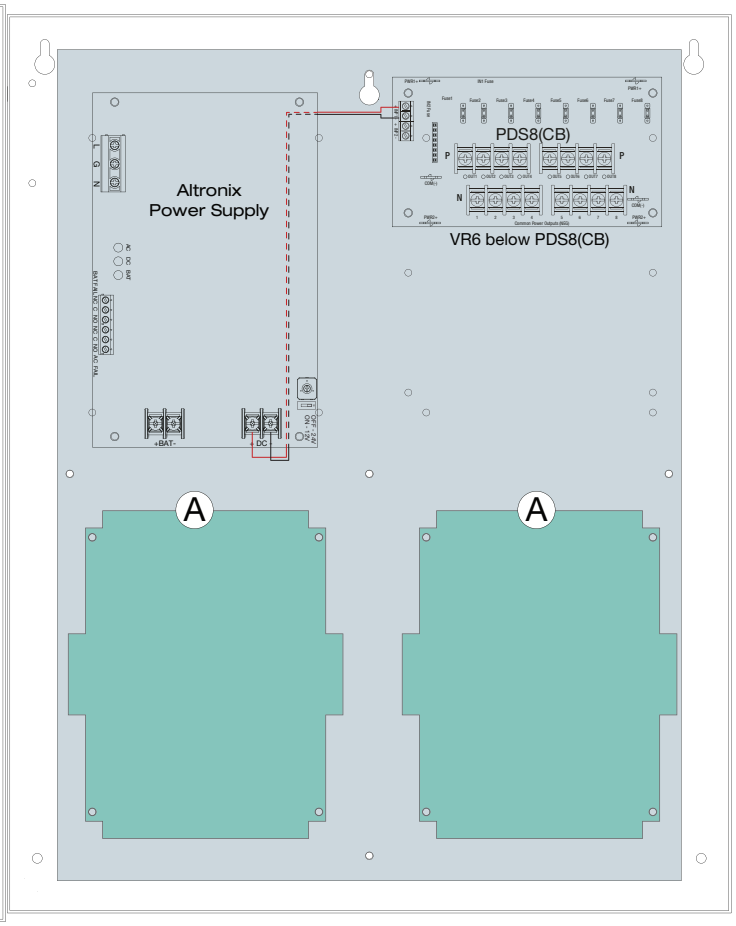
Access Controller Position Chart for the Following Models:

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





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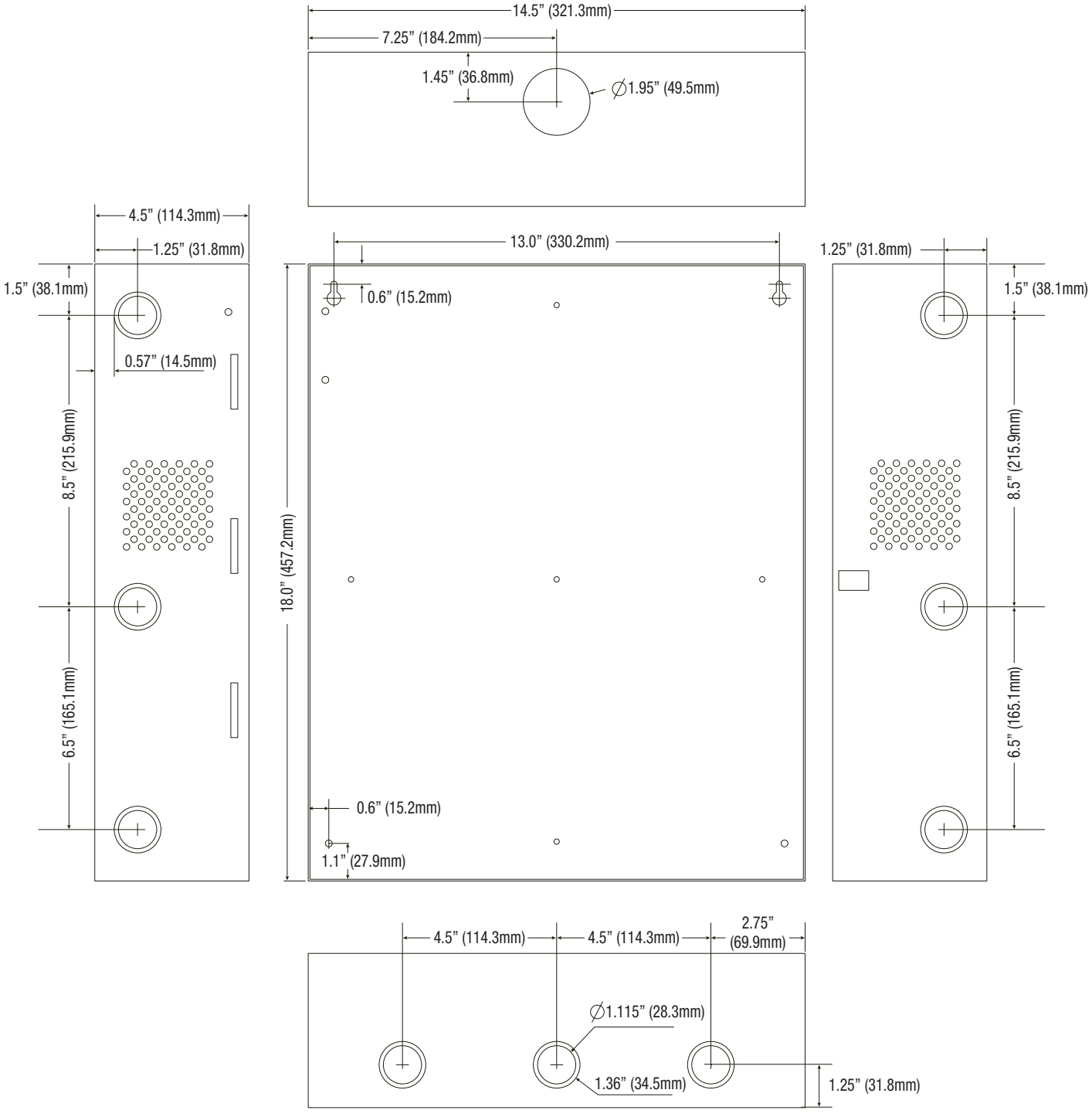
Dimensions and Drawing

Dimensions (H x W x D approximate)

18.0” x 14.5” x 4.625” (457.2mm x 368.3mm x 118mm)



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