Altronix®

T3VK7520D (Kit)

Access & Power Integration Solution for HID Aero/VertX

TROVE™

Altronix T3VK7520D 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 PTC access power controllers, one (1) 4-output PTC access power controller and one (1) 8-output PTC 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.

HID®

T3VK7520D with Aero boards in cases

T3VK7520D 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

- 16 AWG galvanized steel backplane simplifies board layout and wire management
- Enclosure accommodates up to four (4) 12VDC/12AH batteries
- 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

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Specifications

Power Supply 1 (AL1024ULXB2):

Input

Voltage	115VAC 60Hz, 4.2A max.
Input Fuse	5A/250V

Output

Voltage	24VDC
Current	10A @ 24VDC continuous max.
Other	Overvoltage protection. Filtered and regulated

Power Supply 2 (AL1012ULXB):

Input

Voltage	115VAC, 60Hz, 2.6A max.
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	115VAC is present
DC Output	Powered
Battery	Discharged or not connected

Two (2) Access Power Controllers (ACM8CB):

Input

Voltage	24VDC from AL1024ULXB2
Input Fuse	10A/250V

Outputs

Voltage	24VDC

Eight (8) 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

Access Power Controller (ACM4CB):

Input

Voltage	24VDC from AL1024ULXB2
Input Fuse	10A/32V

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

Power Distribution Module (PD8ULCB):

Input

Voltage	12VDC from AL1012ULXB

Outputs

Voltage	12VDC
Output PTCs	2.5A

Indicators (LED)

Green LED	DC Output

T3VK7520D 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:	0ºC to 49ºC (32ºF to 120ºF)
Storage:	– 20ºC to 70ºC (– 4ºF to 158ºF)
Relative Humidity	85% +/– 5%
BTU/Hr. (approx.):	177 BTU/Hr.

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Access Controller Position Chart for the Following Models:

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

TMV2 Door Backplane (Order Separately)
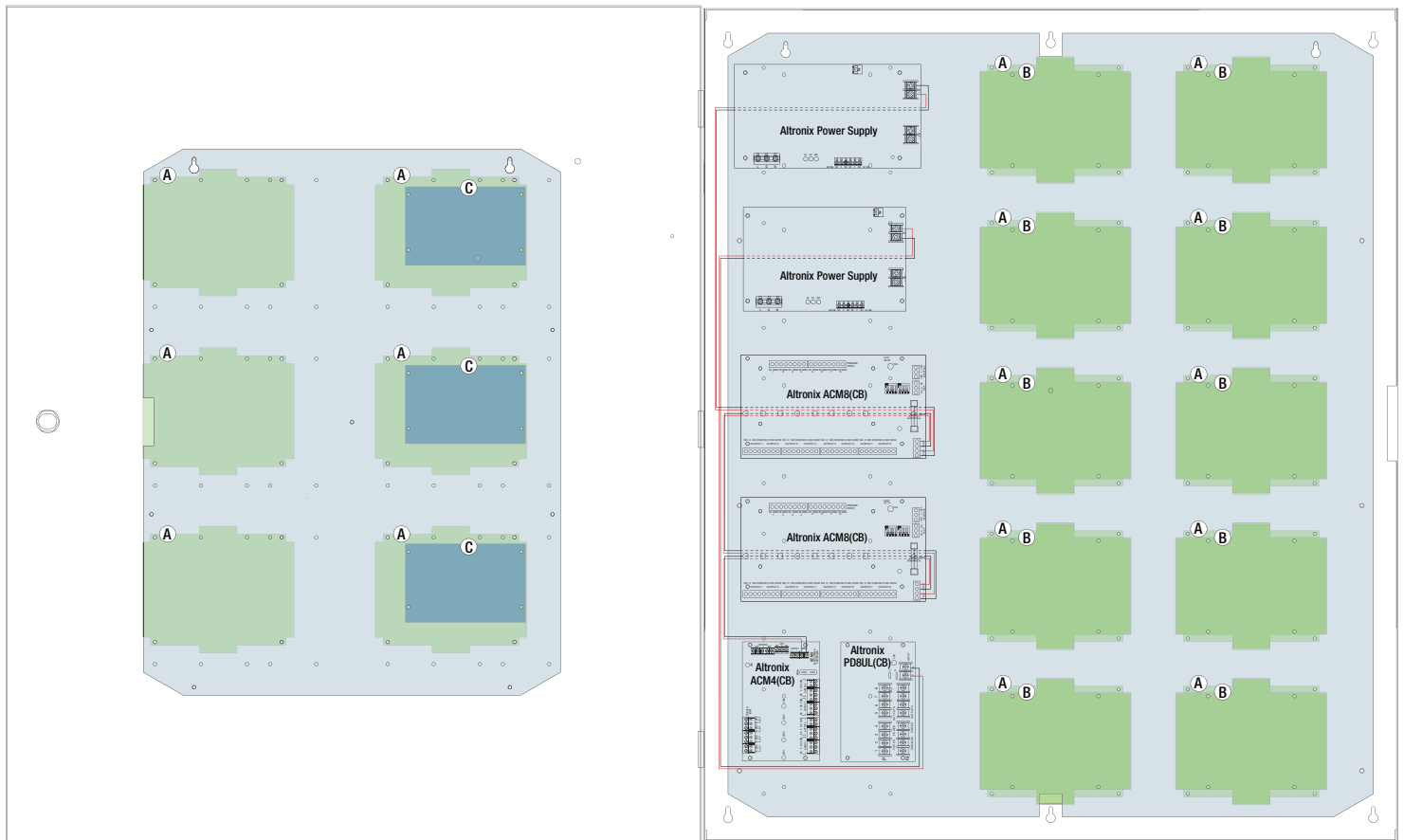
Accessories (order separately)

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

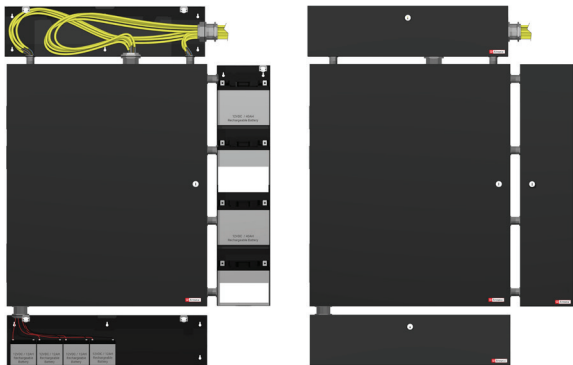### MM4, MM8, MM12, MM24 - Magnetic Mounting Solution
Altronix mounting magnets accommodate screws and nylon standoffs to allow for mounting various boards/accessories in any metal enclosure or backplane.
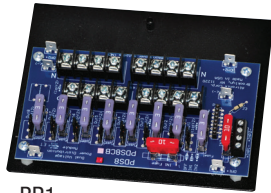
BR1

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)

![Altronix logo] **Altronix**®

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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)

2.00" (50.8mm) — 7.12" (222.3mm) — 9.5" (241.3mm) — 9.5" (241.3mm)

1.25" (31.8mm)
1.78" (45.2mm)
1.55" (39.4mm)

1" Conduit
3/4" Conduit
1.25" Conduit
1.5" Conduit
2" Conduit
1.5" Conduit
1.25" Conduit

1.07" (27.2mm)
30.12" (768.1mm)
14.01" (355.9mm) — 14.01" (355.9mm)

2.00" (50.8mm)
1.25" (31.8mm)

1.10" (27.9mm)

1" Conduit
3/4" Conduit

2" (50.8mm)

1" Conduit
3/4" Conduit

10.75" (273.1mm)
10.62" (269.8mm)

33.63" (854.2mm)

10.75" (273.1mm)

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10.75" (273.1mm)
10.62" (269.8mm)
36.12" (917.5mm)
10.75" (273.1mm)

1.25" (31.8mm)
7.06" (179.3mm)

3/4" Conduit
1" Conduit

1.25" (31.8mm)

2" (50.8mm) — 8.75" (222.3mm) — 8.62" (219mm) — 8.75" (222.3mm)