Altronix®

T2CVK7F10 (Kit)
Access & Power Integration Solution for CDVI

TROVE™

Altronix T2CVK7F10 kit consists of Trove2 enclosure, TCV2 CDVI/Altronix backplane with one (1) 24VDC @ 10A power supply/charger, one (1) 8-output fused access power controller, one (1) 4-output fused access power controller and one (1) 8-output fused power distribution module.

This kit also accommodate various combinations of CDVI Atrium A22K/A22NB/ADH10 boards for up to ten (10) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.

CDVI

T2CVK7F10

CDVI boards are not included

Key Features

- 24VDC power supply/charger
- Accommodates up to five (5) CDVI Atrium A22K/A22NB/ADH10 boards
- Convenient knockout configuration:
  - One (1) single knockout 2.415" (2" 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

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Specifications

Power Supply/Charger (eFlow104NB):

Input

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

Output

Voltage	24VDC @ 10A
Auxiliary	1A (unswitched)
Protection	Overvoltage protection. Filtered and regulated

Battery Charging

Capacity	12AH/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 70-75% for 24V units. Prevents deep battery discharge

Indicators (LED)

AC Input	120VAC is present
DC Output	Powered
Battery	Discharged or not connected

Access Power Controller (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	24VDC from eFlow104NB

Outputs

Voltage	24VDC

Eight (8) fuse protected outputs
3.5A per output max.

Output Fuses	3.5A/250V

Indicators (LED)

Green LED	DC Output

T2CVK7F10 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:
 27.25" x 21.5" x 6.5" (692.2mm x 546.1mm x 165.1mm)
 Shipping:
 32.5" x 26.5" x 11.125" (825.5mm x 673.1mm x 282.6mm)

Weight (approx.)

Product:	54.7 lb. (24.8 kg)
Shipping:	59.7 lb. (27.1 kg)

Temperature

Operating	0ºC to 49ºC (32ºF to 120ºF)
Storage	– 20ºC to 70ºC (– 4ºF to 158ºF)
Relative Humidity	85% +/– 5%
BTU/Hr. (approx.):	131 BTU/Hr.

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Access Controller Position Chart for the Following Models:

CDVI	Pem Mounting
A22K1NB, A22NB, ADH10	Ⓐ

Altronix Power Supply

Ⓐ RJ45 Jack CDVI

Altronix ACM8(CB)

Ⓐ RJ45 Jack CDVI

Altronix ACM4(CB)   Altronix PD8UL(CB)

Ⓐ RJ45 Jack CDVI

Ⓐ RJ45 Jack CDVI

Ⓐ RJ45 Jack CDVI
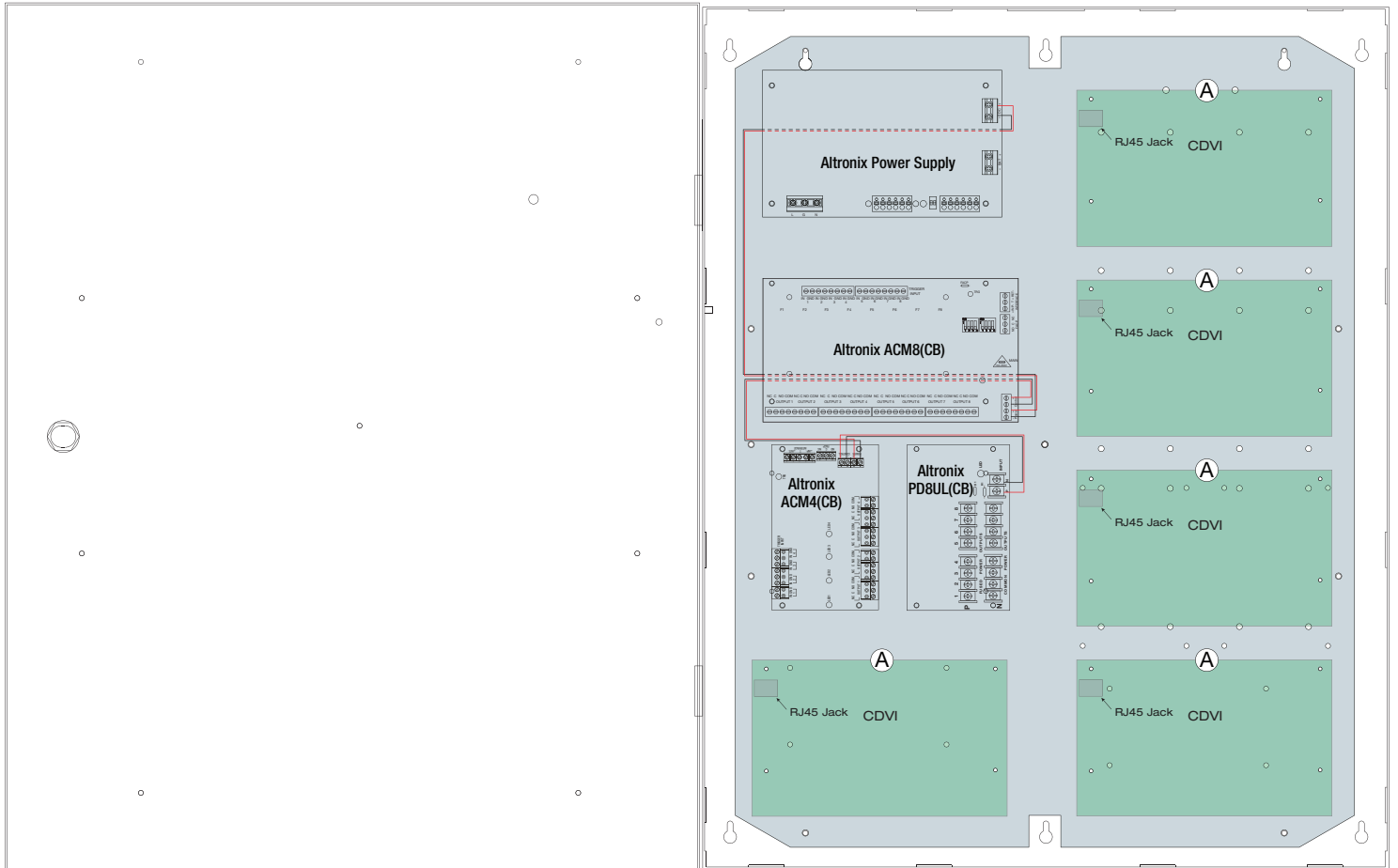
Accessories (order separately)

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

LINQ2

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.

WM5

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.

Mounting Magnet

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.

BR1

Trove2BWC with batteries

Trove2BWC with wires

TROVE2BWC - Battery/Wire Trough Enclosure
Altronix Trove2BWC is a dual-purpose enclosure that can be used as wiring trough or battery cabinet when mounted above or below of the Trove2 integrated power and access solution. The knockouts on the Trove2BWC have been strategically placed to line up with the Trove2 allowing for easy conduit connections between cabinets. Trove2BWC includes cam locks and 2 tamper switches to ensure access to wiring and batteries is secure.

![Altronix® logo]

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Dimensions and Drawing

Dimensions (H x W x D approximate)

27.25" x 21.5" x 6.5" (692.2mm x 546.1mm x 165.1mm)

Top panel dimensions:
- 21.50" (546.1mm)
- 2.00" (50.8mm)
- 5.25" (133.35mm)
- 3.5" (88.9mm)
- 3.5" (88.9mm)
- 5.25" (133.35mm)
- 2.00" (50.8mm)
- 1.25" (31.8mm)
- 0.5625" (14.3mm)
- 0.685" (17.4mm)
- 1.77" (45mm)
- Knockouts 1.125" (28.3mm)
- Ø 2.415" (61.3mm)
- 0.885" (22.5mm)
- 6.25" (158.8mm)

Side/main panel dimensions:
- 1.5" (38.1mm)
- 6.25" (158.8mm)
- 1.25" (31.8mm)
- 19.80" (502.9mm)
- 27" (685.8mm)
- 0.85" (21.6mm)
- 1.00" (25.4mm)
- 2.00" (50.8mm)
- 6.75" (171.5mm)
- 8.25" (209.5mm)
- 8.00" (203.2mm)
- 2.00" (50.8mm)
- 1.25" (31.8mm)

Bottom panel dimensions:
- 1.25" (31.8mm)
- 2.00" (50.8mm)
- 5.25" (133.4mm)
- 7.00" (177.8mm)
- 5.25" (133.4mm)
- 2.00" (50.8mm)