Altronix®

Rev. 05312023

T3CVK77F20 (Kit)

Access & Power Integration Solution for CDVI

TROVE™

Altronix T3CVK77F20 kit consists of Trove3 enclosure, TCV3 CDVI/Altronix backplane with two (2) 24VDC @ 10A power supply/chargers, two (2) 8-output fused access power controllers, one (1) 4-output fused access power controller and one (1) 8-output fused power distribution module. Also featured is a rocker switch bracket with two (2) rocker switches.

This kit also accommodate various combinations of CDVI Atrium A22K/A22NB/ADH10 boards for up to twenty (20) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.

CDVI

T3CVK77F20

CDVI boards are not included

Key Features

- 24VDC power supply/chargers
- Accommodates up to ten (10) CDVI Atrium A22K/A22NB/ADH10 boards
- 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
- 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 four (4) 12VDC/12AH batteries
- Lifetime Warranty*

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

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Specifications

Two (2) Power Supply/Chargers (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 (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
- Battery: Discharged or not connected

Two (2) Access Power Controllers (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

T3CVK77F20 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.): 263 BTU/Hr.

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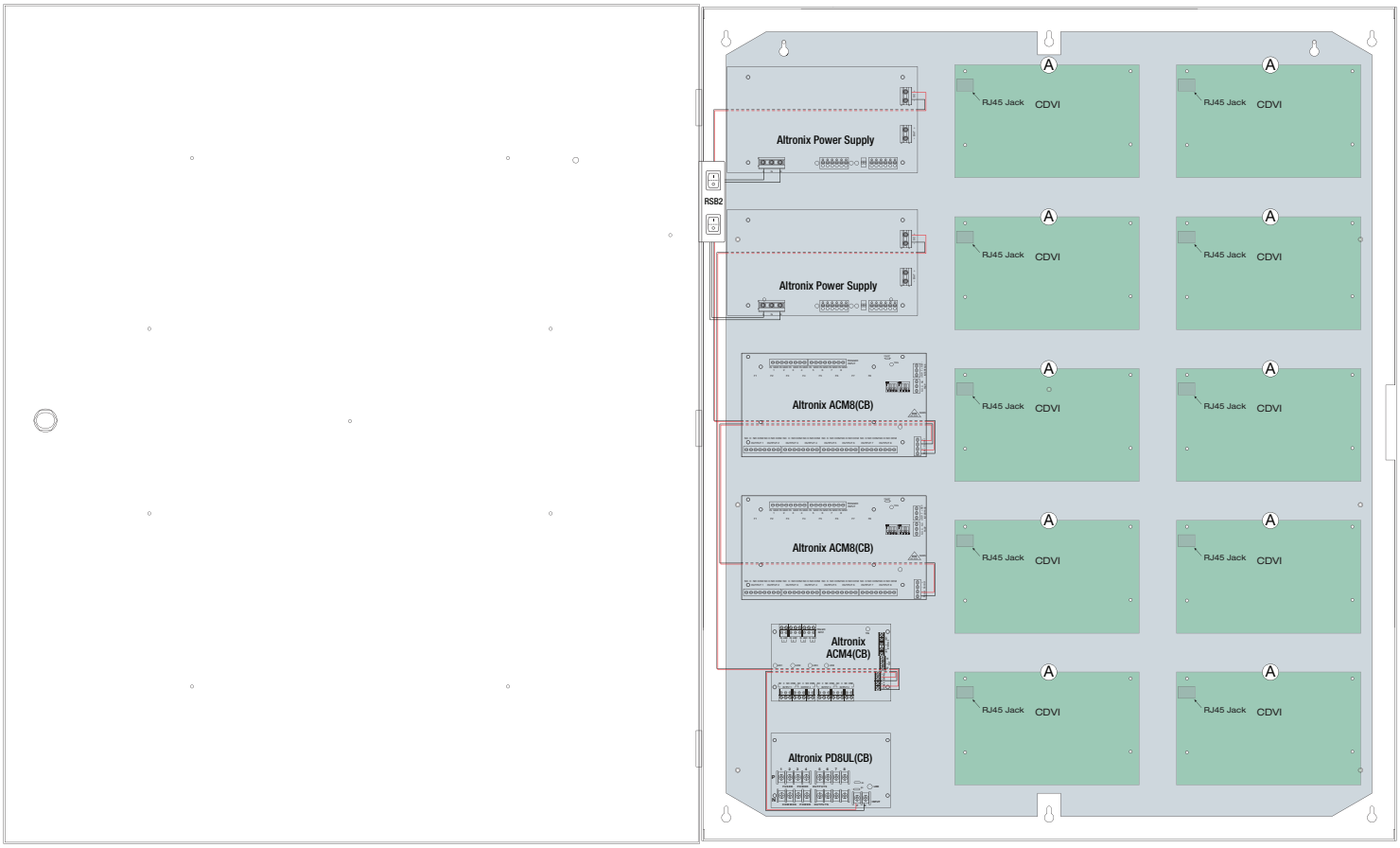
Access Controller Position Chart for the Following Models:

CDVI	Pem Mounting
A22K1NB, A22NB, ADH10	A



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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

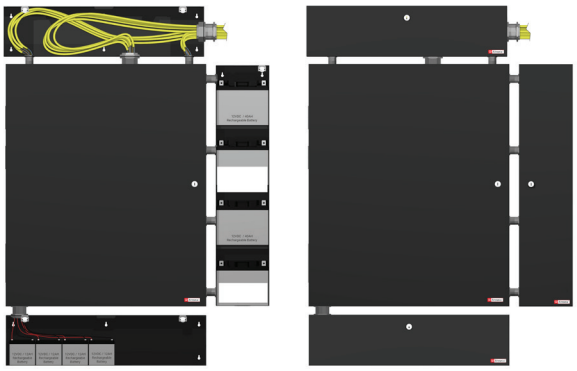
MM4, MM8, MM12, MM24 - Magnetic Mounting Solution

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.



Typical battery/wiring setup with Trove3 Enclosure (not included)

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.

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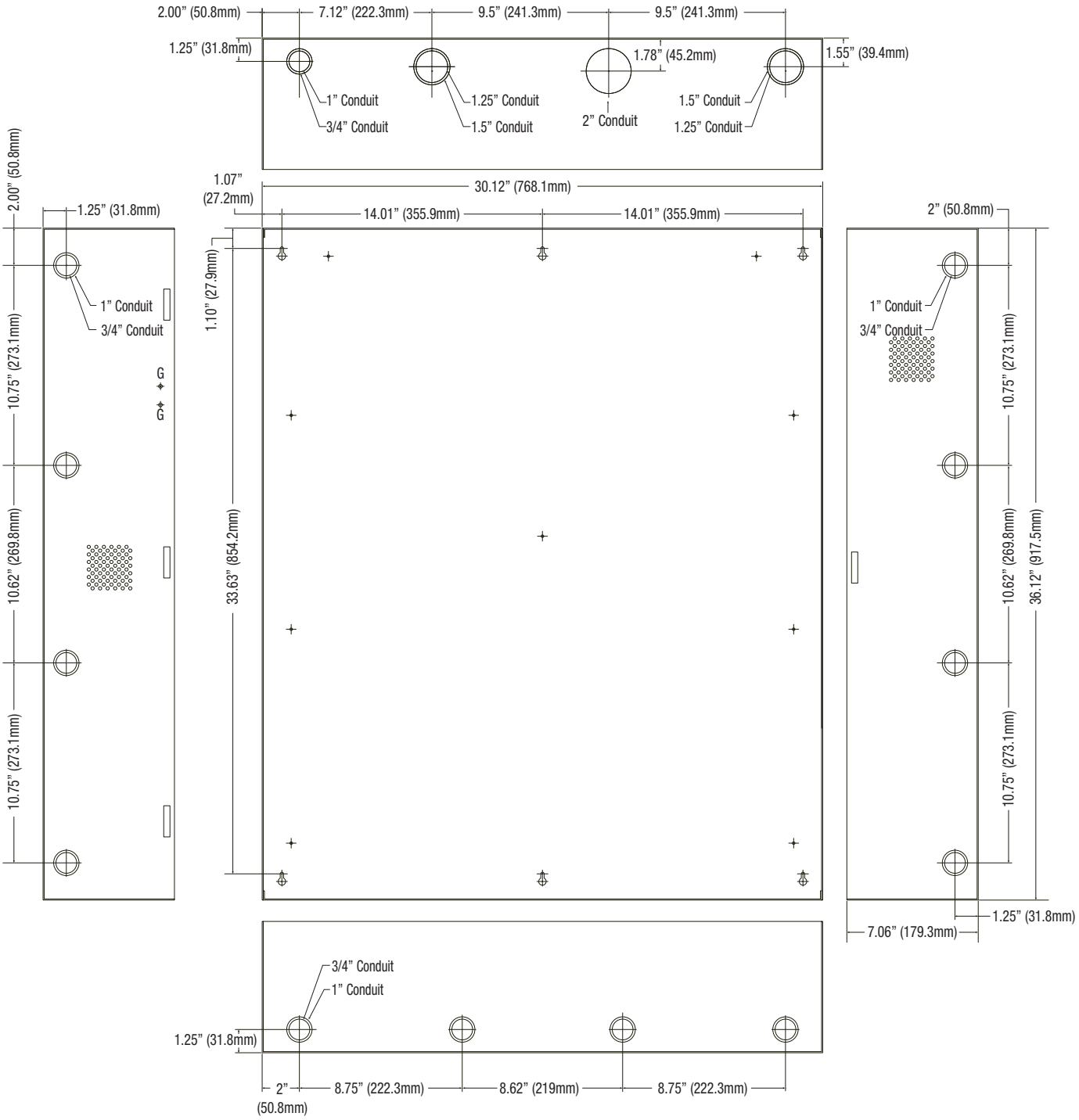
Dimensions and Drawing

Dimensions (H x W x D approximate)

36.12” x 30.125” x 7.06” (917.5mm x 768.1mm x 179.3mm)



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