TROVE™

T3CVK77F20
Access & Power Integration Solution

Altronix®

T3CVK77F20

Description

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.
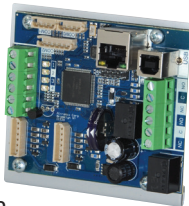
Key Features

- 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).
  - 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).
- 16 AWG galvanized steel backplane simplifies board layout and wire management.

- Supervision
  - AC Fail
  - Low Battery and Battery Presence
  - Low power shutdown.
- Agency Listings:
  - UL: UL294 - Access Control System.
  - cUL: CAN/ULC - s319-05 - Electronic Access Control Systems.
  - CE European Conformity.
- Enclosure accommodates up to four (4) 12VDC/12AH batteries.
- Lifetime Warranty*/Made in the U.S.A.

*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.

TROVE™

T3CVK77F20
Access & Power Integration Solution

Altronix®

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 Backup *(not included)*

Type	Sealed lead acid or gel type.
Fuse Rating	10A/32VDC.
Failover	Upon AC loss, instantaneous.

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 2.5A outputs:
a) Four (4) Fail-Safe and/or Fail-Secure power outputs.
b) Four (4) dry form "C" 5A rated relay outputs.
c) Any combination of the above.
Four (4) auxiliary power outputs (unswitched).

Output Fuses	3A/32VDC.

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)
36.12" x 30.125" x 7.06" (917.5mm x 768.1mm x 179.3mm).

Weight (approx.)

Product	85 lb. (38.6 kg).
Shipping	92 lb. (41.73 kg).

Temperature

Operating	0ºC to 50ºC (32ºF to 122ºF).
Storage	-20ºC to 70ºC (-4ºF to 158ºF).
Relative Humidity	85% +/-5%.
BTU/Hr (approx.):	263 BTU/Hr.

TROVE™

T3CVK77F20
Access & Power Integration Solution

Access Controller Position Chart for the Following Models:

CDVI	Pem Mounting
A22K1NB, A22NB, ADH10	Ⓐ

TROVE™

T3CVK77F20
Access & Power Integration Solution

Altronix®

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)

2.00" (50.8mm)

1.25" (31.8mm)

2" (50.8mm)

1.07" (27.2mm)

30.12" (768.1mm)

14.01" (355.9mm) — 14.01" (355.9mm)

1.10" (27.9mm)

10.75" (273.1mm)

10.62" (269.8mm)

10.75" (273.1mm)

33.63" (854.2mm)

G
G
G

10.75" (273.1mm)

10.62" (269.8mm)

10.75" (273.1mm)

36.12" (917.5mm)

1.25" (31.8mm)

7.06" (179.3mm)

1.25" (31.8mm)

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