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Altronix T1CVK3F4 4 Door Kit with Fused Outputs Installation Guide

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Access & Power Integration
Altronix/CDVI Kits
T1CVK3F4 4-Door Kit with Fused Outputs
Installation Guide

Contents

T1CVK3F4 4 Door Kit with Fused Outputs

Models Include:
T1CVK3F4
4 Door Kit with Fused Outputs
The fully assembled kit includes:

- Trove1 enclosure with TC1 Altronix/CDVI backplane
- One (1) eFlow6NB – Power Supply/Charger

- One (1) ACM4 – Fused Access Power Controller

T2CVK7F10
10 Door Kit with Fused Outputs
The fully assembled kit includes:

- Trove2 enclosure with TCV2 Altronix/CDVI backplane
- One (1) eFlow104NB – Power Supply/Charger
- One (1) ACM8 – Fused Access Control Module
- One (1) ACM4 – Fused Access Control Module
- One (1) PD8UL – Fused Power Distribution Module

T2CVK33F10
10 Door Kit with PTC Outputs
The fully assembled kit includes:

- Trove2 enclosure with TCV2 Altronix/CDVI backplane
- Two (2) eFlow6NB – Power Supply/Chargers
- Two (2) MOM5 – PTC Power Distribution Modules with Fire Alarm Interface

T2CVK33F10Q
10 Door Kit with PTC Outputs
The fully assembled kit includes:

- Trove2 enclosure with TCV2 Altronix/CDVI backplane
- One (1) LINQ2 – Network Communication Module
- Two (2) eFlow6NB – Power Supply/Chargers
- Two (2) MOM5 – PTC Power Distribution Modules with Fire Alarm Interface

T3CVK77F20
20 Door Kit with Fused Outputs
The fully assembled kit includes:

- Trove3 enclosure with TCV3 Altronix/CDVI backplane
- Two (2) eFlow104NB – Power Supply/Chargers
- Two (2) ACM8 – Fused Access Control Modules
- One (1) ACM4 – Fused Access Control Module
- One (1) PD8UL – Fused Power Distribution Module
- One (1) RSB2 – Rocker Switch Bracket with Two (2) Rocker Switches (Not evaluated by UL

All components of this Trove kit are UL Listed as sub-assemblies.
Please refer to the included corresponding Sub-Assembly Installation Guides for further information.
All registered trademarks are the property of their respective owners.
Rev. TCVK_042619
Installing Company: _____ Service Rep. Name:
_____
Address: _____ Phone #: _____

Overview

Altronix Trove CDVI kits are pre-assembled and consist of Trove enclosures/backplanes with factory-installed Altronix power supply/chargers and sub-assemblies. These kits also accommodate various combinations of CDVI Atrium A22K/A22NB/ADH10 boards for up to twenty (20) doors in a single enclosure.
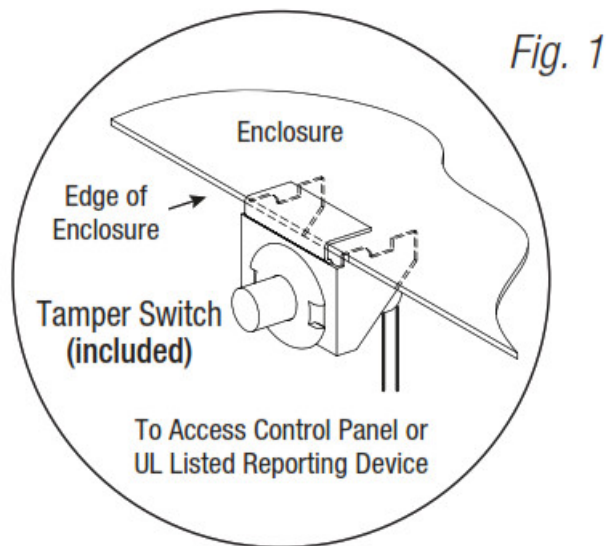
Configuration Chart

Altronix Model Number	Networkable	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	120VAC 60Hz Input Current (A)	Maximum Supply Current for Main and Aux. Outputs on Power Supply board, MOM5 power distribution module or ACM4/ACM8 Access Power Controllers' outputs	Nominal DC Output Voltage Power Supply [DC] Output Range (VDC)	[Aux] Output Range (VDC)	Fail-Safe/Fail-Secure or Dry Form "C" Outputs	Additional Fuse or PTC Protected Outputs	ACM4/ACM8 Board Input Fuse Rating	ACM4 Board Output Fuse Rating	ACM8 Board Output Fuse Rating	PD8UL Board Output Fuse Rating	MOM5 Output PTC Rating
T1CVK3F4	–	5A/250V	15A/32V	3.5	24VDC @ 5.7A	20.17-26.4	20.28-26.4	4	–	10A/250V	3A/32V	–	–	–
T2CVK7F10	–	6.3A/250V	15A/32V	4.5	24VDC @ 9.4A	20.17-26.4	20.28-26.4	12	8	10A/250V	2.5A/250V	2.5A/250V	3.5A/250V	–
T2CVK33F10	–	5A/250V	15A/32V	7.0	24VDC @ 5.9A + 24VDC @ 5.9A	20.17-26.4	20.28-26.4	–	10	–	–	–	–	2A/250V
T2CVK33F10Q	✓	5A/250V	15A/32V	7.0	24VDC @ 5.9A + 24VDC @ 5.9A	20.17-26.4	20.28-26.4	–	10	–	–	–	–	2A/250V
T3CVK77F20	–	6.3A/ 250V	15A/32V	9.0	24VDC @ 9.4A + 24VDC @ 9.7A	20.17-26.4 / 9.7-13.2	20.28-26.4 / 10.03-13.2	20	8	10A/250V	3A/32V	2.5A/250V	3.5A/250V	–

Installation Instructions

Wiring methods shall be in accordance with the National Electrical Code/NFPA 70/ANSI, and with all local codes and authorities having jurisdiction. The product is intended for indoor use only.

1. Remove the backplane from the enclosure. Do not discard hardware. If your application requires a raised backplane, re-mount it using metal spacers and screws (provided).

2. Mark and predrill holes in the wall to line up with the top three keyholes in the enclosure. Install two/three upper fasteners and screws in the wall with the screw heads protruding. Place the enclosure's upper keyholes over the two/three upper screws; level and secure. Mark the position of the lower two/three holes. Remove the enclosure. Drill the lower holes and install the fasteners. Place the enclosure's upper keyholes over the upper screws. Install the lower screws and make sure to tighten all screws.

3. Mount included UL Listed tamper switch(es) (Altronix Model TS112 or equivalent) in the desired location, opposite hinge. Slide the tamper switch bracket onto the edge of the enclosure approximately 2" from the right side (Fig. 1, pg. 2). Connect the tamper switch wiring to the Access Control Panel input or the appropriate UL Listed reporting device. To activate the alarm signal open the door of the enclosure.

4. Mount CDVI A22K/A22NB/ADH10 boards to the backplane, refer to pages 3-6.

5. Refer to the eFlow Power Supply/Charger Installation Guide (eFlow6NB, eFlow102NB, eFlow104NB) and corresponding Sub-Assembly Installation Guide (LINQ2, ACM4, ACM8, PD8UL, MOM5) for further installation instructions.

Fig. 1

Enclosure

Edge of Enclosure →

Tamper Switch (included)

To Access Control Panel or UL Listed Reporting Device

T1CVK3F4: Configuration of CDVI A22K/A22NB/ADH10 Boards

1. Fasten spacers (supplied with A22K/A22NB/ADH10) to CDVI A22K/A22NB/ADH10 board (Fig. 2b, pg. 3).
2. Mount CDVI A22K/A22NB/ADH10 boards into the correct positions (Fig. 2, pg. 3) by positioning spacers over appropriate holes on the backplane and depressing down on board to secure the spacer to the backplane (Fig. 2a, 2b, pg. 3).

   Note: CDVI A22K/A22NB/ADH10 boards have one (1) RJ45 jack each.

   Please make sure that they are mounted correctly, as shown in Fig. 2 below.
3. Fasten the backplane to the Trove2 enclosure utilizing pan head screws (provided).
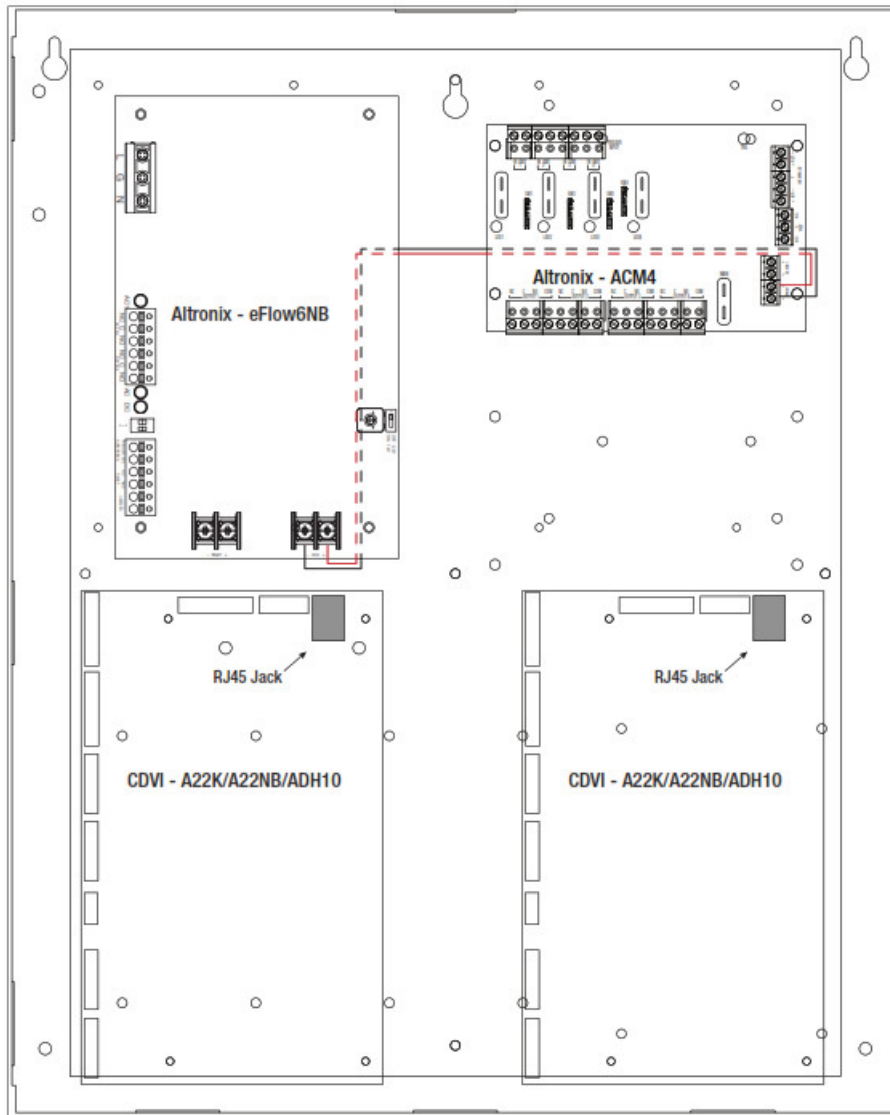
Fig. 2

Fig. 2a

Spacer

Backplane

CDVI - A22K/A22NB/ADH10
Access Controller

Altronix - eFlow6NB

Altronix - ACM4

RJ45 Jack

RJ45 Jack

CDVI - A22K/A22NB/ADH10

CDVI - A22K/A22NB/ADH10

Fig. 2b

Plastic Spacer
pre-mounted into
CDVI Atrium modules

Insert into
TC1 backplane

T2CVK7F10: Configuration of CDVI A22K/A22NB/ADH10 Boards

1. Fasten spacers (supplied with A22K/A22NB/ADH10) to CDVI A22K/A22NB/ADH10 board (Fig. 3b, pg. 4).
2. Mount CDVI A22K/A22NB/ADH10 boards into the correct positions (Fig. 3, pg. 4) by positioning spacers over appropriate holes on the backplane and depressing down on board to secure the spacer to the backplane (Fig. 3a, 3b, pg. 4).
   Note: CDVI A22K/A22NB/ADH10 boards have one (1) RJ45 jack each.
   Please make sure that they are mounted correctly, as shown in Fig. 3 below.
3. Fasten the backplane to the Trove2 enclosure utilizing pan head screws (provided).
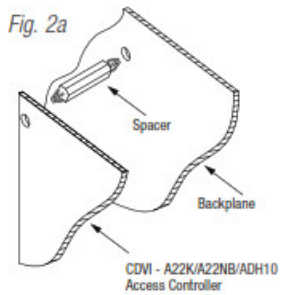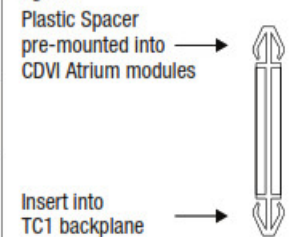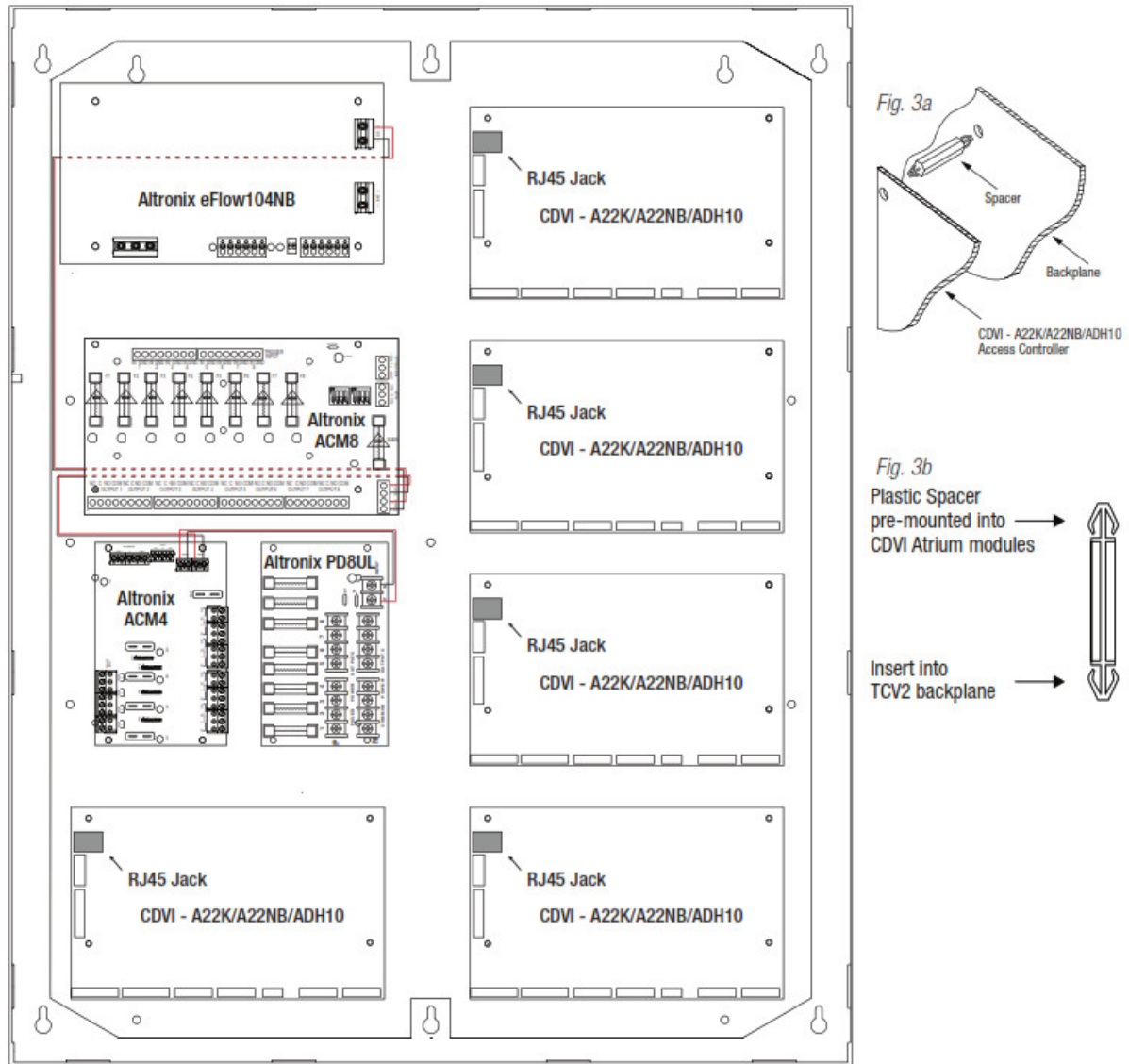
Fig. 3

Fig. 3a
Spacer
Backplane
CDVI - A22K/A22NB/ADH10
Access Controller

Altronix eFlow104NB

RJ45 Jack
CDVI - A22K/A22NB/ADH10

Altronix
ACM8

RJ45 Jack
CDVI - A22K/A22NB/ADH10

Fig. 3b
Plastic Spacer
pre-mounted into
CDVI Atrium modules

Insert into
TCV2 backplane

Altronix PD8UL

Altronix
ACM4

RJ45 Jack
CDVI - A22K/A22NB/ADH10

RJ45 Jack
CDVI - A22K/A22NB/ADH10

RJ45 Jack
CDVI - A22K/A22NB/ADH10

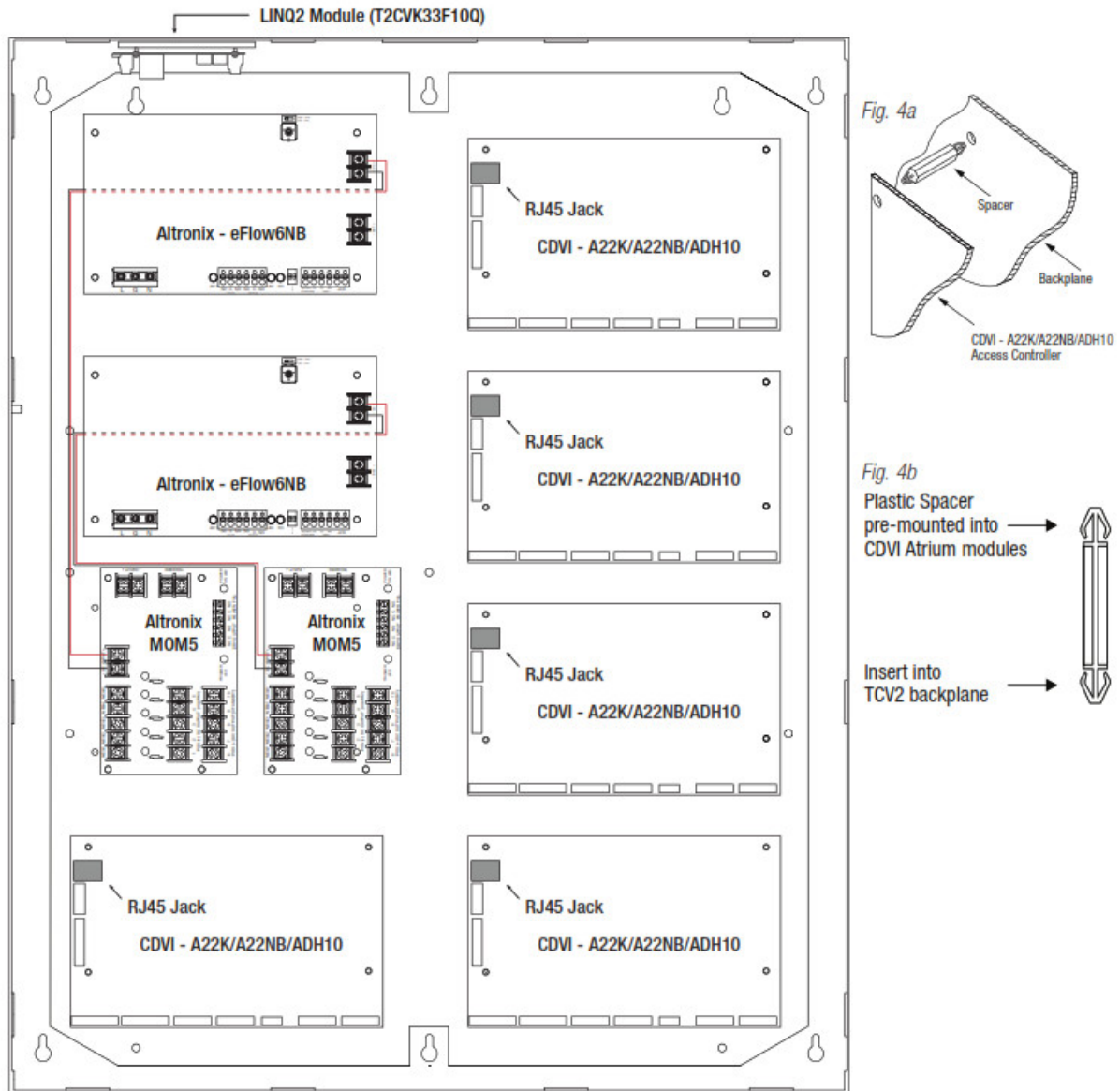**T2CVK33F10 and T2CVK33F10Q: Configuration of CDVI A22K/A22NB/ADH10 Boards**

1. Fasten spacers (supplied with A22K/A22NB/ADH10) to CDVI A22K/A22NB/ADH10 board (Fig. 4b, pg. 5).
2. Mount CDVI A22K/A22NB/ADH10 boards into the correct positions (Fig. 4, pg. 5) by positioning spacers over appropriate holes on the backplane and depressing down on board to secure the spacer to the backplane (Fig. 4a, 4b, pg. 5).

   Note: CDVI A22K/A22NB/ADH10 boards have one (1) RJ45 jack each.

   Please make sure that they are mounted correctly, as shown in Fig. 4 below.
3. Fasten the backplane to the Trove2 enclosure utilizing pan head screws (provided).

Fig. 4

LINQ2 Module (T2CVK33F10Q)

Altronix - eFlow6NB

Altronix - eFlow6NB

Altronix MOM5

Altronix MOM5

RJ45 Jack
CDVI - A22K/A22NB/ADH10

RJ45 Jack
CDVI - A22K/A22NB/ADH10

RJ45 Jack
CDVI - A22K/A22NB/ADH10

RJ45 Jack
CDVI - A22K/A22NB/ADH10

RJ45 Jack
CDVI - A22K/A22NB/ADH10

Fig. 4a

Spacer

Backplane

CDVI - A22K/A22NB/ADH10
Access Controller

Fig. 4b
Plastic Spacer
pre-mounted into
CDVI Atrium modules

Insert into
TCV2 backplane

T3CVK77F20: Configuration of CDVI A22K/A22NB/ADH10 Boards

1. Fasten spacers (supplied with A22K/A22NB/ADH10) to CDVI A22K/A22NB/ADH10 board (Fig. 5b, pg. 6).
2. Mount CDVI A22K/A22NB/ADH10 boards into the correct positions (Fig. 5, pg. 6) by positioning spacers over appropriate holes
   on the backplane and depressing down on board to secure the spacer to the backplane (Fig. 5a, 5b, pg. 6).
   Note: CDVI A22K/A22NB/ADH10 boards have one (1) RJ45 jack each.
   Please make sure that they are mounted correctly, as shown in Fig. 5 below.
3. Fasten the backplane to the Trove3 enclosure utilizing pan head screws (provided).
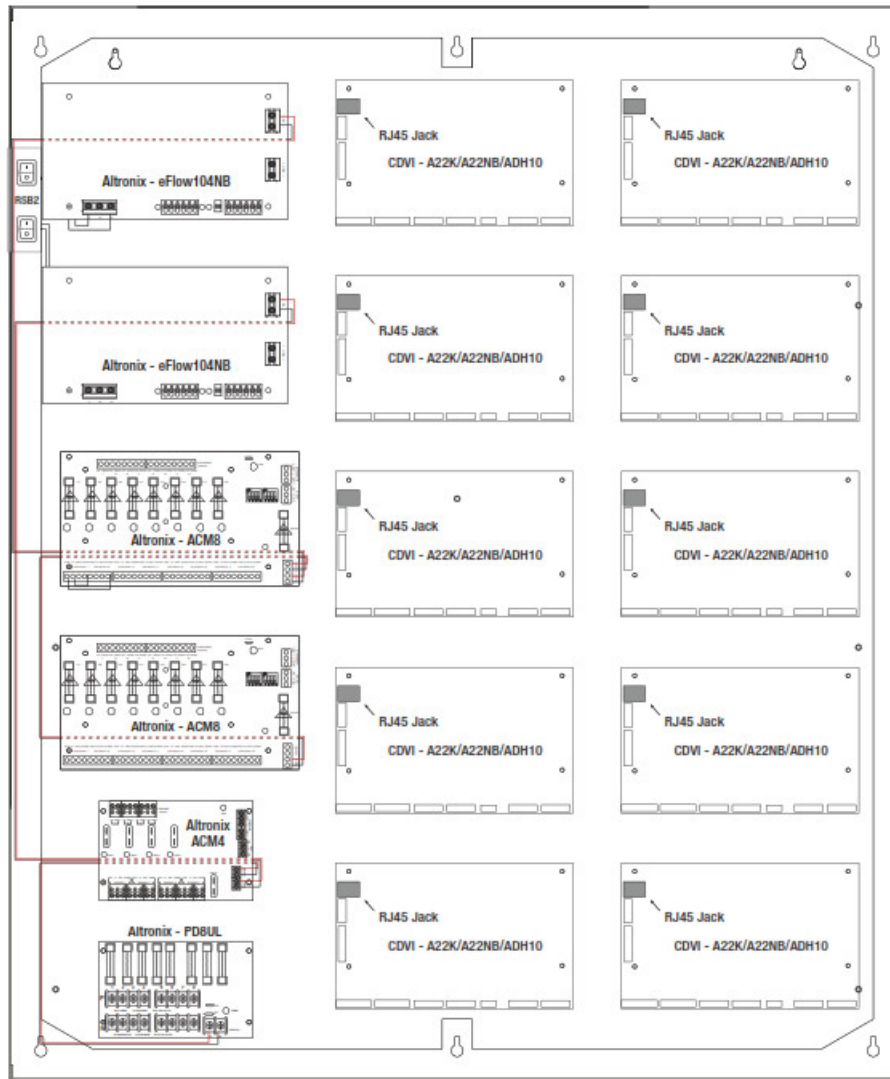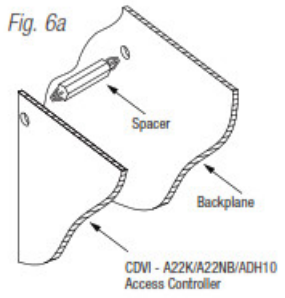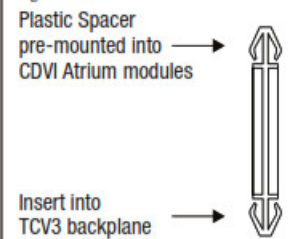
Fig. 3

Fig. 6a

Spacer

Backplane

CDVI - A22K/A22NB/ADH10
Access Controller

Fig. 6b

Plastic Spacer
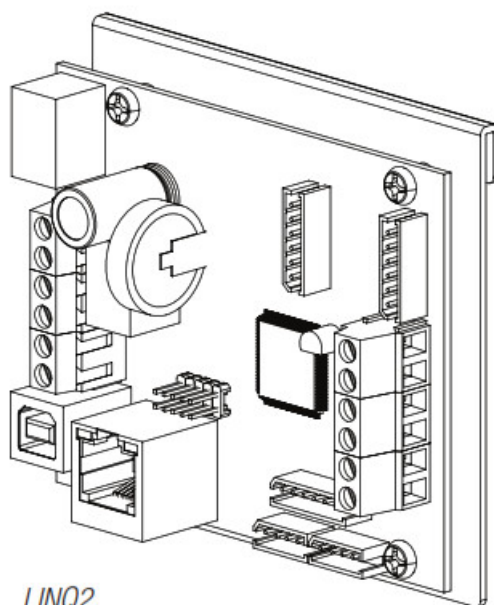pre-mounted into
CDVI Atrium modules

Insert into
TCV3 backplane

eFlow Power Supply/Chargers can be Controlled and Monitored while Reporting Power/Diagnostics from Anywhere over the Network…
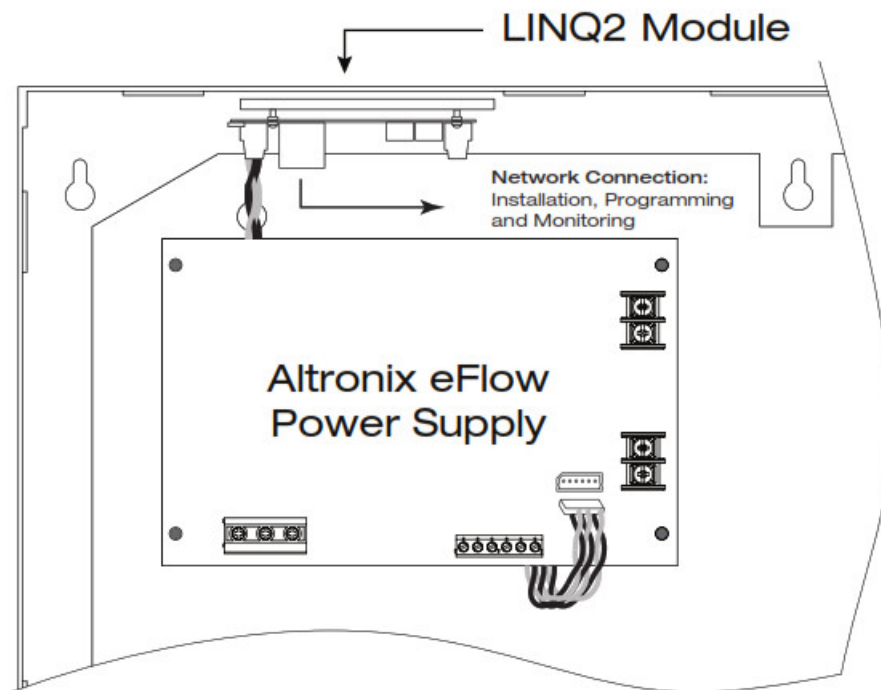

LINQ

LINQ2

LINQ2 – Network Communication Module

LINQ2 provides remote IP access to real-time data from eFlow power supply/chargers to help keep systems up and running at optimal levels. It facilitates fast and easy installation and set-up, minimizes system downtime, and eliminates unnecessary service calls, which helps reduce the Total Cost of Ownership (TCO) – as well as creates a new source of Recurring Monthly Revenue (RMR).
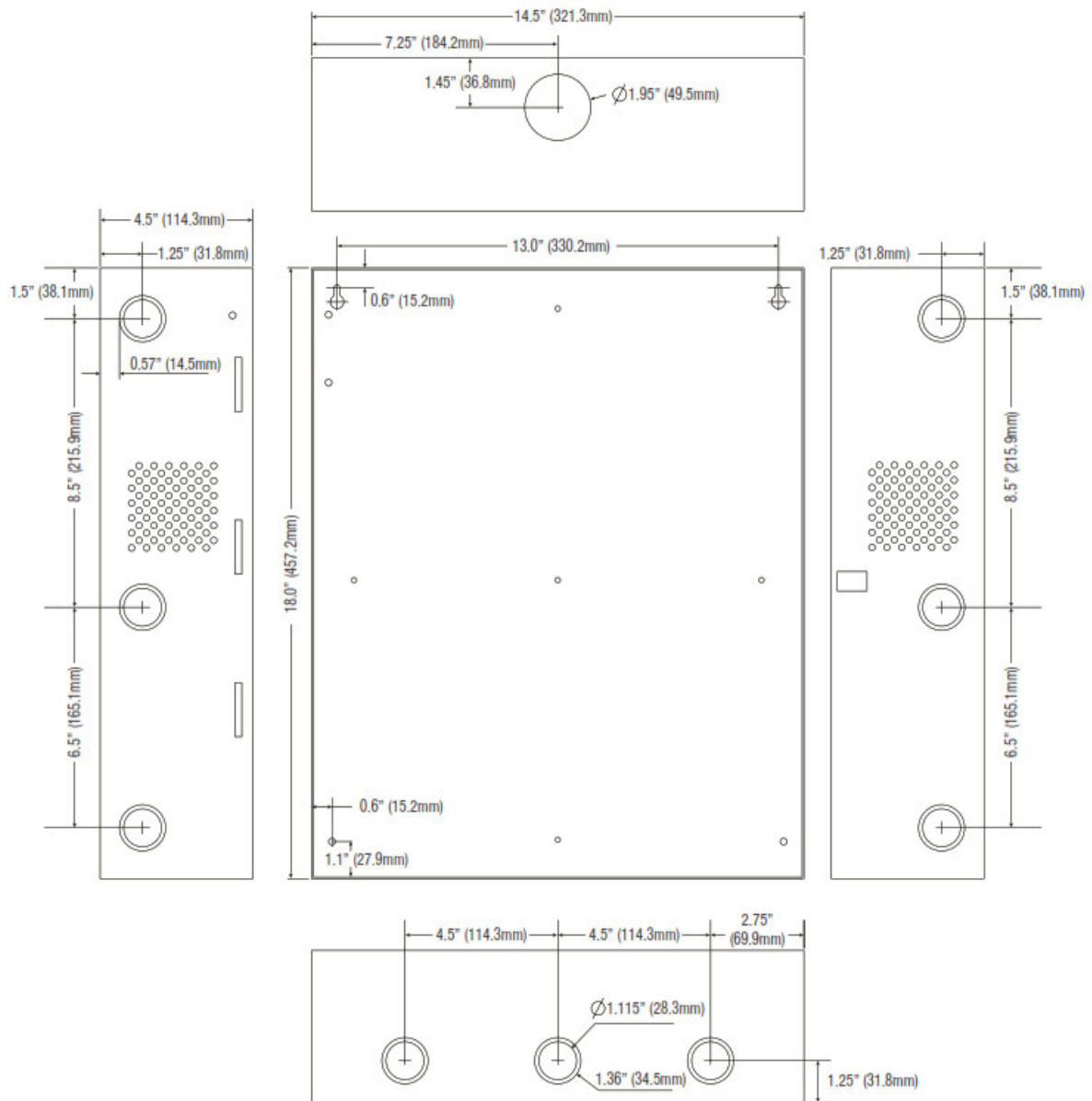
Features

- UL is Listed in the U.S. and Canada.
- Local or remote control of up to (2) two Altronix eFlow power output(s) via LAN and/or WAN.
- Monitor real-time diagnostics: DC output voltage, output current, AC & battery status/service, input trigger state change, output state change, and unit temperature.
- Access control and user management: Restrict read/write, Restrict users to specific resources
- Two (2) integral network controlled Form "C" Relays.
- Three (3) programmable input triggers: Control relays and power supplies via external hardware sources.
- Email and Windows Dashboard notifications
- The event log tracks history.
- Secure Socket Layer (SSL).
- Programmable via USB or web browser – includes operating software and 6 ft. USB cable.
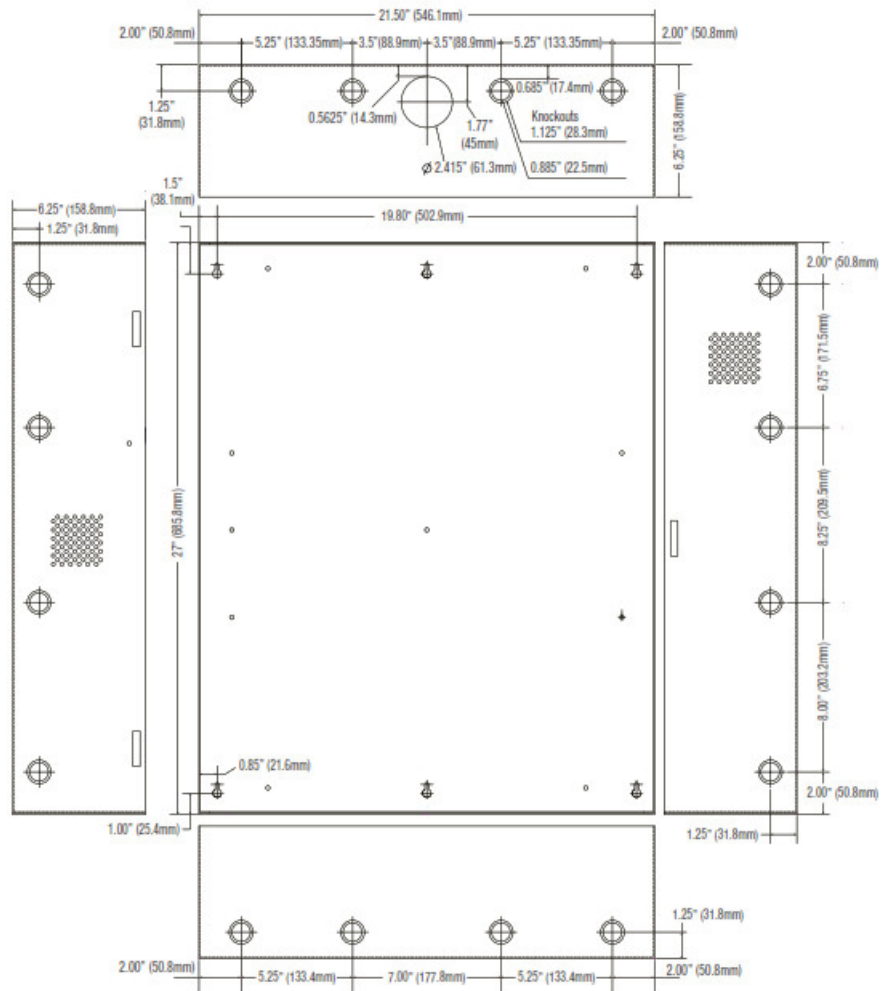
LINQ2 Mounts Inside any Trove Enclosure

T1CVK3F4 (Trove1) Enclosure Dimensions (H x W x D approximate):
18" x 14.5" x 4.625" (457mm x 368mm x 118mm)

T2CVK7F10 and T2CVK33F10 (Trove2) Enclosure Dimensions (H x W x D approximate):
27.25" x 21.5" x 6.5" (692.2mm x 552.5mm x 165.1mm)

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)

Knockouts
1.125" (28.3mm)

1.77" (45mm)

6.25" (158.8mm)

ø 2.415" (61.3mm) 0.885" (22.5mm)

6.25" (158.8mm)

1.5" (38.1mm)

1.25" (31.8mm)

19.80" (502.9mm)

2.00" (50.8mm)

6.75" (171.5mm)

27" (685.8mm)

8.25" (209.5mm)

8.00" (203.2mm)

0.85" (21.6mm)

2.00" (50.8mm)

1.00" (25.4mm)

1.25" (31.8mm)

1.25" (31.8mm)

2.00" (50.8mm) 5.25" (133.4mm) 7.00" (177.8mm) 5.25" (133.4mm) 2.00" (50.8mm)

T3CVK77F20 (Trove3) Enclosure Dimensions (H x W x D approximate):
36.12" x 30.125" x 7.06" (917.5mm x 768.1mm x 179.3mm)

MEMBER Trove CDVI Kits Installation Guide

Documents / Resources

	Altronix T1CVK3F4 4 Door Kit with Fused Outputs [pdf] Installation Guide T1CVK3F4 4 Door Kit with Fused Outputs, T1CVK3F4, 4 Door Kit with Fused Outputs, 4 Door Kit, Door Kit
	Altronix T1CVK3F4 4 Door Kit with Fused Outputs [pdf] Instruction Manual T1CVK3F4 4 Door Kit with Fused Outputs, T1CVK3F4, 4 Door Kit with Fused Outputs, with Fused Outputs, Fused Outputs

References

- **Altronix Home**