TRⅭVE™

Access & Power Integration

T1RV3F4

Fully assembled kit includes:

- Trove1R rack enclosure with Altronix/HID VertX® backplane (TV1R)
- (1) eFlow6NB - Power Supply/Charger
- (1) VR6 - Voltage Regulator
- (1) PDS8 - Fused Dual Output Power Distribution Module
- (1) ACM4 - Fused Access Power Controller

Installation Guide

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CE

Altronix®

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Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____

Overview:

Altronix T1RV3F4 rack kit is pre-assembled and consist of Trove1V1R enclosure/backplane with factory installed Altronix power supply/charger and sub-assemblies. This kit also accommodates various combinations of HID VertX® boards for up to six (6) doors in a single enclosure.

Configuration Chart:

Altronix Model Number	120VAC 60Hz Input Current	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	Nominal DC Output Voltage [DC] Output Range (VDC)	Nominal DC Output Voltage [Aux] Output Range (VDC)	Maximum Supply Current for Main and Aux. Outputs on Power Supply board, PDS8 Power Distribution Module and ACM4 Access Power Controller's outputs	Fail-Safe/Fail-Secure or Dry Form "C" Outputs	ACM4 Board Input Fuse Rating	ACM4 Board Output Fuse Rating	Current Per ACM4 Output (A)	PDS8 Board Input Fuse Rating	PDS8 Board Output Fuse Rating
T1RV3F4	3.5A	5A/ 250V	15A/ 32V	20.28-26.4	20.28-26.4	24VDC @ 5.4A	4	10A/ 32V	3A/ 32V	2.5A	3A/ 32V	2.5A

Hardware and Accessories:

⬤▭ Spacer | ▭▭▭▭ 7/8" Pan Head Screw | ⬡ Lock Nut

Specifications:

Agency Listings:
- CE European Conformity.

Mechanical:
- Black enclosure with ample knockouts for convenient access.
- Includes: tamper switch, cam lock and mounting hardware.
- Modular 2U standard EIA 19" drawer with extendable slides up to 48".
- Dimensions (H x W x D): 3.375" x 19.0" x 26.5" (85.8mm x 482.6mm x 673.1mm)

Included Accessories:
- One (1) tamper switch (Altronix Model TS112 or equivalent).
- Cam lock.

Available Accessories (not included):
- **RE2:** Rack Mount Battery Enclosure accommodates up to four (4) 12VDC/7AH batteries.
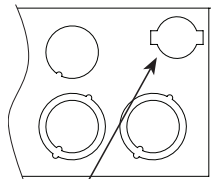- **WM5, WM25, WM100:** Magnetic Cable Tie Mounts (5, 25, 100 counts).

Installation Instructions for T1RV3F4:

Wiring methods shall be in accordance with the National Electrical Code/NFPA 70/ANSI, and with all local codes and authorities having jurisdiction. These products are for indoor use only and must be installed within the protected premises.

Note: First assemble and Install Z Bracket Wire Management Accesory *(refer to Z Bracket Installation pg. 4)*
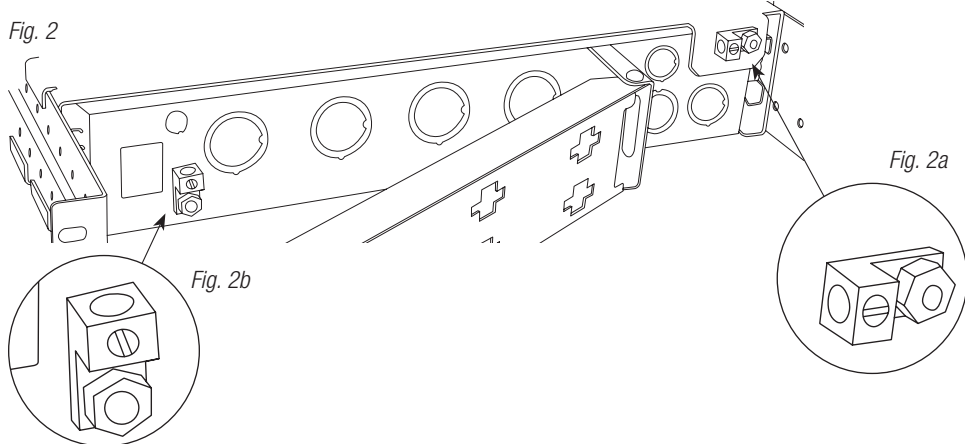
1. Remove backplane from enclosure prior to installing into rack cabinet (do not discard hardware).
2. In order to mount included UL Listed tamper switch (Altronix Model TS112 or equivalent) turn the enclosure upside down. Punch out the knockout in designated location, on the back of the unit, from outside of the drawer *(Fig. 1, pg. 3)*. Insert the tamper switch into the knockout from outside of the drawer with the button facing outwards and spaded connectors inside the drawer. Connect tamper switch wiring to the Access Control Panel input or the appropriate UL Listed reporting device.
To activate alarm signal open the rack drawer.
3. Slide the rack enclosure into an open 2U location in the four post rack cabinet.
4. Utilizing proper fasteners attach front ears to the rack rails.
5. Attach the rear of the adjustable slides to the rear rails of the rack cabinet with the proper fasteners.
6. Secure the rack cover *(Fig. 2a, pg. 3)* and rack drawer to earth ground *(Fig. 2b, pg. 3)*.

Fig. 1
Back of the drawer, viewed from outside.

Tamper Switch mounting location

Fig. 2

Fig. 2a

Fig. 2b

7. Ensure that all internal cofigurations (voltage selection, switch settings, etc.) are completed before mounting backplane back into Trove rack enclosure.
8. After all components are mounted on the backplane, attach it to the enclosure using included hardware.
9. Mount HID VertX® boards to TV1R backplane, refer to *page 5*.
10. Refer to the *eFlow Power Supply/Charger Installation Guide* for eFlow6NB and corresponding sub-assembly *Installation Guides* for the following models: ACM4(CB), PDS8(CB), VR6 for further instructions.
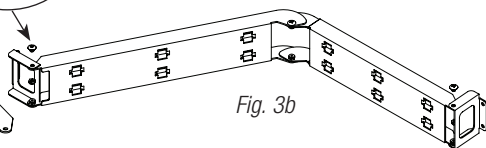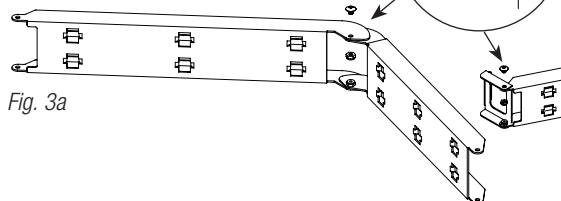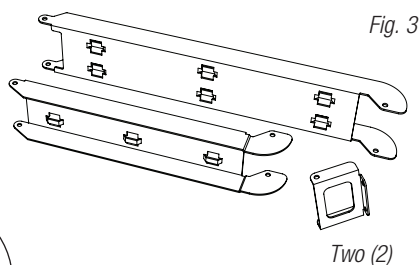
Assembling and Attaching
Z Bracket Wire Management Accessory (included):

Altronix Trove Rack enclosures include Z Bracket, a convenient and reliable wire management accessory.
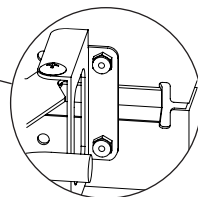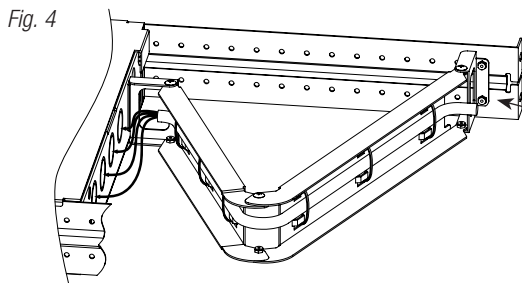

Fig. 3

Hardware (included):

Ten (10) bolts and   eight (8) lock nuts.

Two (2)

1. Carefully unpack Z Bracket. Do not discard hardware (included) *(Fig. 3, pg. 4)*.
2. Attach arms to each other using bolts and lock nuts *(Fig. 3a, pg. 4)*.
3. Attach the hinge brackets to the ends of arms using bolts and nuts positioning them as shown on *(Fig. 3b, pg. 4)*.
4. Make sure that all nuts are tightened.

Fig. 3a

Fig. 3b

5. Attach the hinge bracket on the longer side of Z Bracket to the adjustable slide using bolts and lock nuts (included) *(Fig. 4, 4a, pg. 4)*.
6. Attach the hinge bracket on the shorter side of Z Bracket to the rear of the rack enclosure using bolts (included).

Fig. 4

Fig. 4a

T1RV3F4:
Configuration of HID VertX® Boards

1. Fasten spacers onto metal pems configuration (A) of backplane depending on the access controller *(Fig. 5, pg. 5)*.
2. Position access controller module over corresponding spacers and fasten screws into spacers *(Fig. 5a, pg. 5)*.
3. Fasten TV1R backplane to Trove1R rack enclosure utilizing hardware (provided).

Access Controller Position Chart for the Following Models:

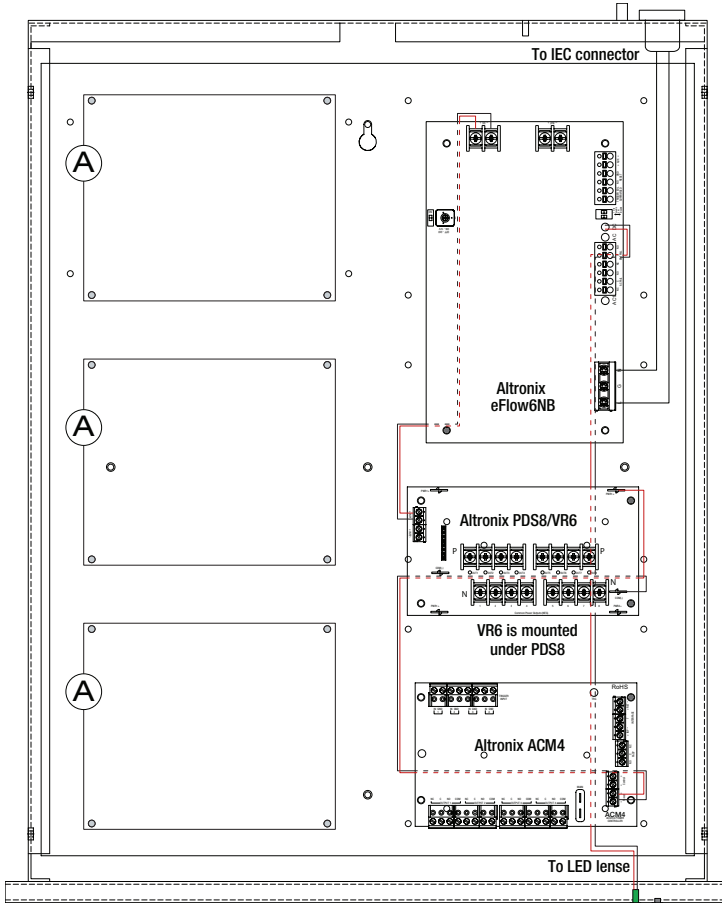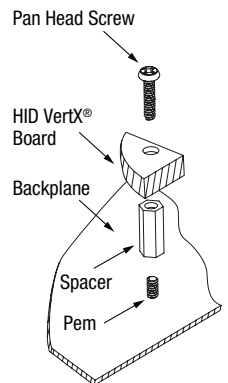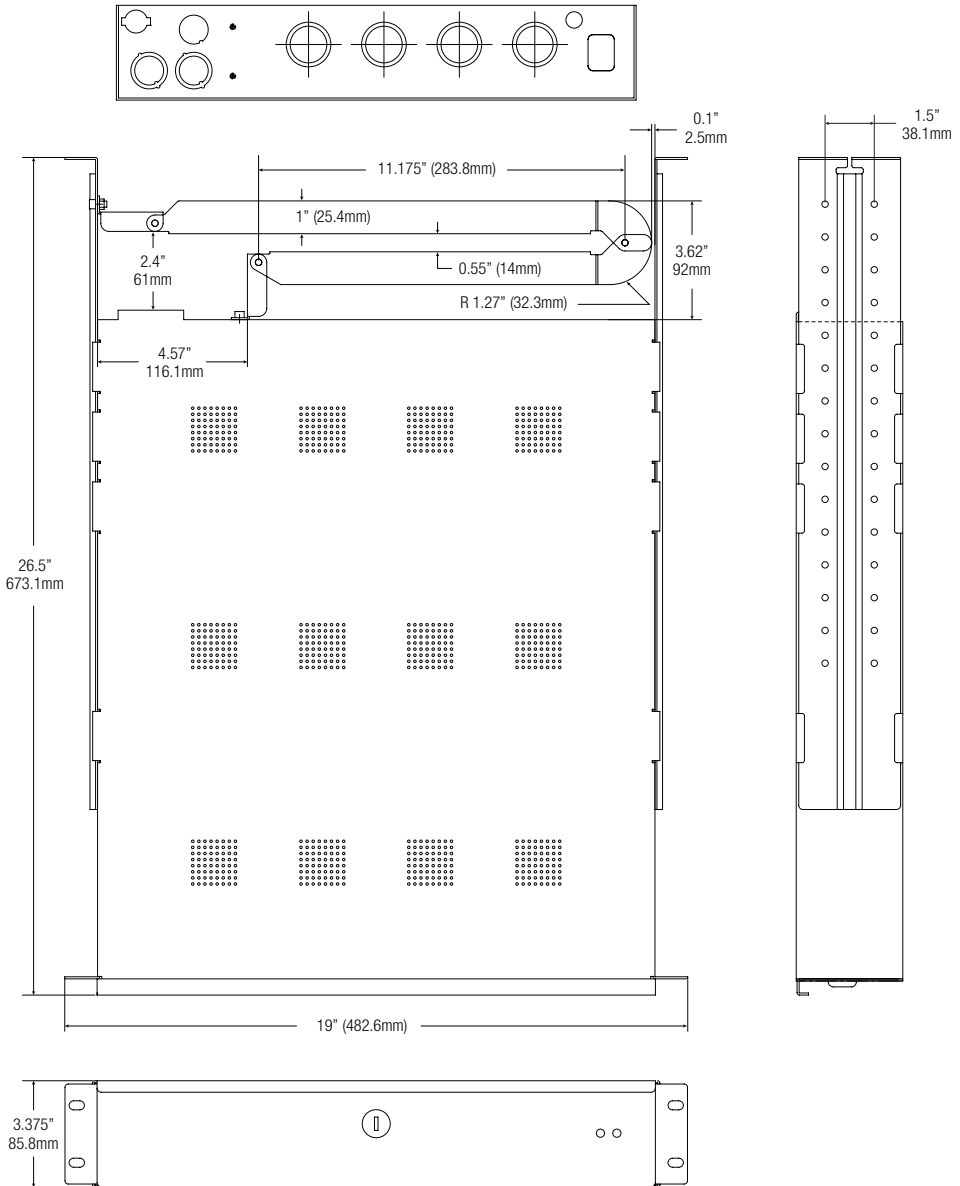| HID VertX® Board	Pem Mounting
V100, V200, V300, V1000, V2000	(A)

Fig. 5

Fig. 5a

Notes:

Notes:

Trove1R Enclosure Dimensions:

3.375" x 19.0" x 26.5" (85.8mm x 482.6mm x 673.1mm). Shown with Z Bracket attached.

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