

Trove1SH1R

- Trove rack enclosure with Altronix/Software House backplane (TSH1R)

Installation Guide

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Rev. TSHR112818

More than just power.™

Installing Company:	Service Rep. Name:		
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Overview:

Altronix Trove1SH1R rack mount access & power integration solution accommodates various combinations of Software House boards with or without Altronix power supplies and accessories for access systems.

Specifications:

Agency Listings:

CE European Conformity.

Trove1SH1R

Trove1R rack mount enclosure with TSH1R Altronix/Software House backplane.

- 16 Gauge black enclosure with ample knockouts for convenient access.
- 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).
- Includes tamper switch (Altronix Model TS112 or equivalent) and cam lock.

TSH1R

Altronix/Software House backplane.

- 16 Gauge backplane.
- Dimensions (H x W x D): 18.5" x 15.25" x 0.3125" (469.9mm x 387.4mm x 7.9mm).

Optional Accessories:

- RE2: Rack Mount Battery Enclosure accommodates up to four (4) 12VDC/7AH batteries
- WM5, WM25, WM100; Magnetic Cable Tie Mounts (5, 25, 100 counts).
- LC3: 6 ft. three-wire line cord.

Backplane Accommodates a Combination of the Following:

Altronix:

- Up to two (2) eFlow4NB, eFlow6NB, eFlow102NB, eFlow104NB, ACMS8(CB), or ACM8(CB).
- Up to two (2) ACM4(CB), MOM5, PD4UL(CB), PD8UL(CB), PDS8(CB), or VR6.

Software House:

- Up to two (2) iStar Ultra ACM or two (2) iStar ACM SE/PRO ACM.
- Up to six (6) 18, R8, or 18-CSI expansion modules.

Hardware and Accessories:



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Installing Trove1R into Rack Tower:

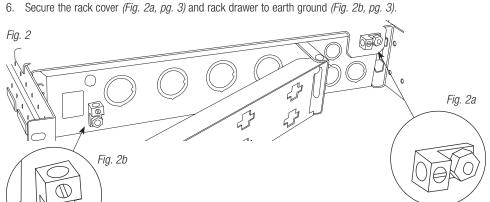
Wiring methods shall be in accordance with the National Electrical Code/NFPA 70/ANSI, and with all local codes and authorities having jurisdiction. These products are for indoor use only and must be installed within the protected premises.

Note: First assemble and Install Z Bracket Wire Management Accesory *(refer to Z Bracket Installation pg. 4)*

- 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.

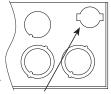
To activate alarm signal open the rack drawer.

- 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.



- Make sure that all internal cofigurations (wiring, voltage selection, switch settings, etc.) are complete before mounting backplane back into enclosure.
- 8. After all components are mounted on the backplane, attach it to the enclosure using included hardware.

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



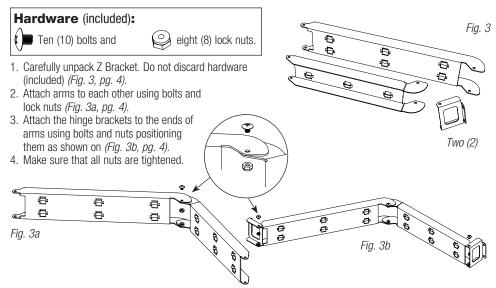
Tamper Switch mounting location

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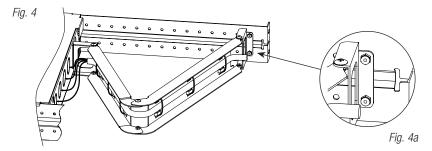
Assembling and Attaching

Z Bracket Wire Management Accessory (included):

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



- 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).



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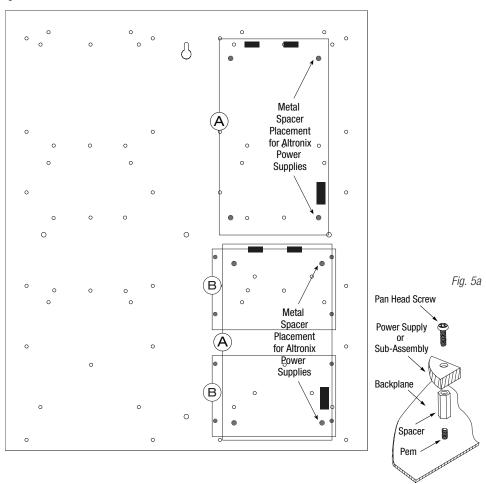
Configuration of Altronix Power Supply and/or Sub-Assembly Boards

- 1. Fasten spacers onto metal pems configuration (A) or (B) of backplane depending on the board (Fig. 5, pg. 5).
- 2. Position access controller module over corresponding spacers and fasten screws into spacers (Fig. 5a, pg. 5).
- 3. Mount backplane to enclosure with hardware.

Position Chart for the Following Models:

Altronix Power Supply/Charger or Sub-Assembly	Pem Mounting
eFlow4NB, eFlow6NB, eFlow102NB, eFlow104NB, or ACM8(CB), ACMS8(CB)	A
ACM4(CB), MOM5, PD4UL(CB), PD8UL(CB), PD88(CB), PD16W(CB) or VR6	B

Fig. 5



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TSH1R:

Configuration of Software House iSTAR Ultra Boards

- 1. Align the Software House boards on the backplane to match the boards' mounting holes with corresponding pems.
- 2. Fasten provided spacers to pems that match the hole pattern for Software House iSTAR Ultra ACM boards.
- 3. Mount Software House boards to spacers utilizing 5/16" pan head screws (provided) (Fig. 6, 6a, pg. 6). Note: Software House iSTAR Ultra ACM boards have one (1) USB port each.

Please orient boards in the appropriate position according to the Fig. 6 below.

4. Mount backplane to enclosure with hardware.

Access Controller Position Chart for the Following Models:

Software House iSTAR Ultra Controller	Pem Mounting
iSTAR Ultra ACM	A

Fig. 6

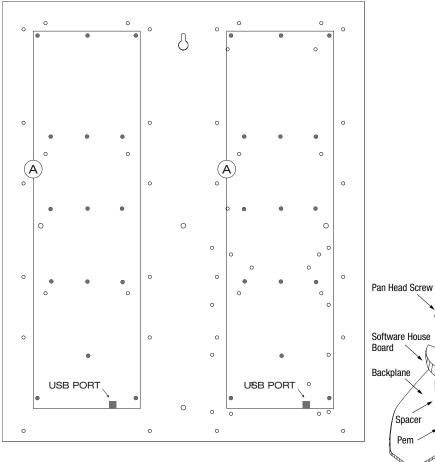


Fig. 6a

TSH1R:

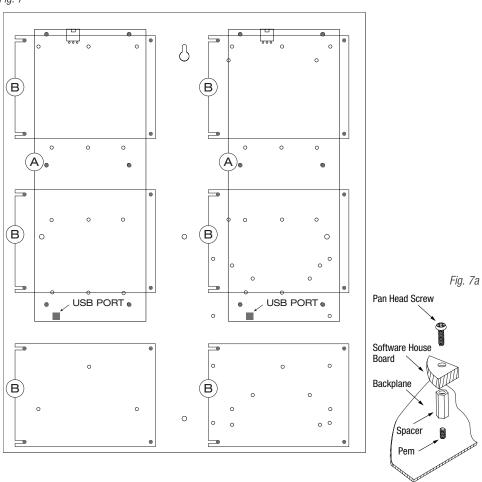
Configuration of Software House iSTAR Pro Boards

- 1. Align the Software House boards on the backplane to match the boards' mounting holes with corresponding pems.
- 2. Fasten provided spacers to pems that match the hole pattern for Software House iSTAR ACM SE/PRO ACM and/or I8, R8, I8-CSI boards.
- 3. Mount Software House boards to spacers utilizing 5/16" pan head screws (provided) (*Fig. 7, 7a, pg. 7*). **Note:** Software House iSTAR ACM SE/PRO ACM boards have one (1) USB port each. Please orient boards in the appropriate position according to the *Fig. 7* below.
- 4. Mount backplane to enclosure with hardware.

Position Chart for the Following Models:

Software House iSTAR Ultra Controller	Pem Mounting
ISTAR ACM SE/ PRO ACM	A
I8, R8 or I8-CSI Module	B

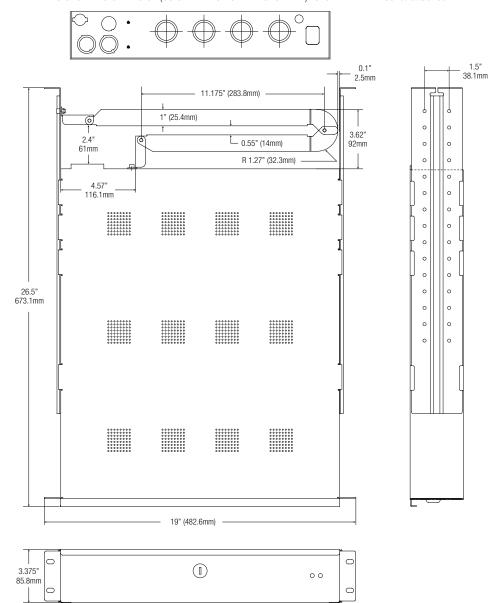
Fig. 7



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Trove1R Enclosure Dimensions:

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



Altronix is not responsible for any typographical errors.

