TREVE **Access & Power Integration**

Trove1SH1R

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

Installation Guide

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Rev. TSHR112818

Installing Company: ______ Service Rep. Name: _____

Address:

Phone #: ____



More than just power.™

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.

Specific	
Agency Listings:	TSH1R
CE European Conformity.	Altronix/Software House backplane.
Trove1SH1R	• 16 Gauge backplane.
Trove1R rack mount enclosure with	• Dimensions (H x W x D): 18.5" x 15.25" x 0.3125"
TSH1R Altronix/Software House backplane.	(469.9mm x 387.4mm x 7.9mm).
 16 Gauge black enclosure with ample knockouts for 	Optional Accessories:
convenient access.	• <i>RE2:</i> Rack Mount Battery Enclosure accommodates up to four (4)
• Modular 2U standard EIA 19" drawer with	12VDC/7AH batteries
extendable slides up to 48".	• <i>WM5, WM25, WM100:</i> Magnetic Cable Tie Mounts
• Dimensions (H x W x D): 3.25" x 19.0" x 26.5"	(5, 25, 100 counts).
(82.6mm x 482.6mm x 673.1mm).	• <i>LC3:</i> 6 ft. three-wire line cord.
• Includes tamper switch (Altronix Model TS112 or equivalent)	
and cam lock.	
Backplane Accommodates a	Combination of the Following:
Altronix:	Software House:
• Up to two (2) eFlow4NB, eFlow6NB, eFlow102NB,	• Up to two (2) iStar Ultra ACM or
eFlow104NB, ACMS8(CB), or ACM8(CB).	two (2) iStar ACM SE/PRO ACM.
• Up to two (2) ACM4(CB), MOM5, PD4UL(CB), PD8UL(CB), PDS8(CB), or VR6.	• Up to six (6) I8, R8, or I8-CSI expansion modules.

Hardware and Accessories:

Specifications:

Spacer | () 5/16" Pan Head Screw | () Lock Nut

Assembling and Attaching Z Bracket Wire Management Accessory (included):

- Altronix Trove Rack enclosures include Z Bracket, a convenient and reliable wire management accessory.
- 1. Carefully unpack Z Bracket. Do not discard hardware (included) (Fig. 1, pg. 3).
- 2. Attach arms to each other using bolts and lock nuts (Fig. 1a, pg. 3).
- 3. Attach the hinge brackets to the ends of arms using bolts and nuts positioning them as shown on Fig. 1b, pg. 3.
- 4. Make sure that all nuts are tightened.



- 5. Attach the hinge bracket on the longer side of Z Bracket to the adjustable rail using bolts and lock nuts (included) (Fig. 2, 2a, pg. 3).
- 6. Attach the hinge bracket on the shorter side of Z Bracket to the rear of the rack enclosure using bolts (included).



Installation Instructions for Trove1R:

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

- 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. 3, pg. 4*). 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 Trove rack enclosure into an open 2U location in the 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. Make sure that all internal cofigurations (wiring, voltage selection, switch settings, etc.) are complete before mounting backplane back into enclosure.
- 7. After all components are mounted on the backplane, attach it to the enclosure using included hardware.

Fig. 3 Back of the drawer, viewed from outside.



Tamper Switch mounting location

TSH1R: 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 power supply and/or Sub-Assembly (*Fig. 4, pg. 5*).
- 2. Position access controller module over corresponding spacers and fasten screws into spacers (Fig. 4a, 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, ACMS8(CB) or ACM8(CB)	A
ACM4(CB), MOM5, PD4UL(CB), PD8UL(CB), PDS8(CB), or VR6	B

Fig. 4



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. 5, 5a, 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. 5 below.
- 4. Mount backplane to enclosure with hardware.

Position Chart for the Following Models:

Software House iSTAR Ultra Controller	Pem Mounting
iSTAR Ultra ACM	A

Fig. 5



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. 6, 6a, 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. 6 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. 6



Trove1R Enclosure Dimensions (H x W x D):

3.25" x 19.0" x 26.5" (82.6mm x 482.6mm x 673.1mm). Shown with Z Bracket attached.



Altronix is not responsible for any typographical errors.

140 58th Street, Brooklyn, New York 11220 USA | phone: 718-567-8181 | fax: 718-567-9056 web site: www.altronix.com | e-mail: info@altronix.com | Made in U.S.A. IITrove1SH1R