TROVE™ PLUS

Access & Power Integration

Altronix/Software House Networked Wired Kits

Models Include:

T3SH75XK1Q

16 Door Kit with Fused Outputs

Accommodates one (1) iStar Ultra GCM/GCM G2 Controller and two (2) iStar Ultra ACM Access Control Modules.

Fully assembled kit includes:

- Trove3 enclosure with TSH3 Altronix/Software House backplane
- One (1) eFlow104NB - Power Supply/Charger
- One (1) eFlow102NB - Power Supply/Charger
- Two (2) LINQ8ACM - Dual Input Networked Fused Access Power Controllers
- One (1) PDS16 - Dual Input Fused Power Distribution Module
- One (1) Rocker Switch Bracket with Two (2) Rocker Switches
- Wire harnesses and finger duct

T3SH75XK1DQ

16 Door Kit with PTC Outputs

Accommodates one (1) iStar Ultra GCM/GCM G2 Controller and two (2) iStar Ultra ACM Access Control Modules.

Fully assembled kit includes:

- Trove3 enclosure with TSH3 Altronix/Software House backplane
- One (1) eFlow104NB - Power Supply/Charger
- One (1) eFlow102NB - Power Supply/Charger
- Two (2) LINQ8ACMCB - Dual Input Networked PTC Access Power Controllers
- One (1) PDS16CB - Dual Input PTC Power Distribution Module
- One (1) Rocker Switch Bracket with Two (2) Rocker Switches
- Wire harnesses and finger duct

T3SH777XK1Q

24 Door Kit with Fused Outputs

Accommodates one (1) iStar Ultra GCM/GCM G2 Controller and three (3) iStar Ultra ACM Access Control Modules.

Fully assembled kit includes:

- Trove3 enclosure with TSH3 Altronix/Software House backplane
- Three (3) eFlow104NB - Power Supply/Chargers
- Three (3) LINQ8ACM - Dual Input Networked Fused Access Power Controllers
- Three (3) VR10 - Voltage Regulators
- Two (2) PDS16 - Dual Input Fused Power Distribution Module
- One (1) NetWay5B - 5-Port Hardened Switch
- Two (2) Rocker Switch Brackets with Three (3) Rocker Switches
- Wire harnesses and finger duct

T3SH777XK1DQ

24 Door Kit with PTC Outputs

Accommodates one (1) iStar Ultra GCM/GCM G2 Controller and three (3) iStar Ultra ACM Access Control Modules.

Fully assembled kit includes:

- Trove3 enclosure with TSH3 Altronix/Software House backplane
- Three (3) eFlow104NB - Power Supply/Chargers
- Three (3) LINQ8ACMCB - Dual Input Networked PTC Access Power Controllers
- Three (3) VR10 - Voltage Regulators
- Two (2) PDS16CB - Dual Input PTC Power Distribution Module
- One (1) NetWay5B - 5-Port Hardened Switch
- Two (2) Rocker Switch Brackets with Three (3) Rocker Switches
- Wire harnesses and finger duct

Please refer to the included corresponding Sub-Assembly Installation Guides for further information.

Installation Guide

CE

Altronix®

More than just power.™

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Rev. T3SHXKQ102723

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____

Overview:

Altronix Trove Plus kits are pre-wired, pre-assembled and consist of Trove3SH3 enclosure/backplane with factory installed Altronix power supply/charger(s) and sub-assemblies, wire harnesses and finger duct.

Configuration Chart:

Altronix Model Number	120VAC 60Hz Input Current (A)	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	Nominal DC Output Voltage				Maximum Supply Current for Main and Aux. Outputs on Power Supply board and LINQ8ACM(CB) Access Power Controller's outputs	Fail-Safe/Fail-Secure or Dry Form "C" Outputs	Current Per LINQ8ACM(CB) and PDS16(CB) Output (A)	LINQ8ACM(CB) and PDS16(CB)Board Input Fuse (PTC) Rating	LINQ8ACM(CB) and PDS16(CB)Board Output Fuse (PTC) Rating	NetWay5B Switch Input	NetWay5B Switch Outputs
				Power Supply 1		Power Supply 2								
				[DC]	[Aux]	[DC]	[Aux]							
				Output Range (VDC)	Output Range (VDC)	Output Range (VDC)	Output Range (VDC)							
T3SH75XK1Q	9	6.3A/ 250V 5A/ 250V	15A/ 32V	20.17-26.4	20.28-26.4	9.7-13.2	10.03-13.2	24VDC @ 9.4A	16	2.5	15A/ 32V	3A/ 32V	–	–
T3SH75XK1DQ										2.0	9A	2.5A		
T3SH777XK1Q	13.5	6.3A/ 250V		20.17-26.4	20.28-26.4	20.17-26.4	20.28-26.4		24	2.5	15A/ 32V	3A/ 32V	24VDC	Five (5) data ports
T3SH777XK1DQ										2.0	9A	2.5A		

Hardware and Accessories:

- Two (2) tamper switches (Altronix Model TS112 or equivalent).
- Cam lock.
- Battery leads.

Mechanical:

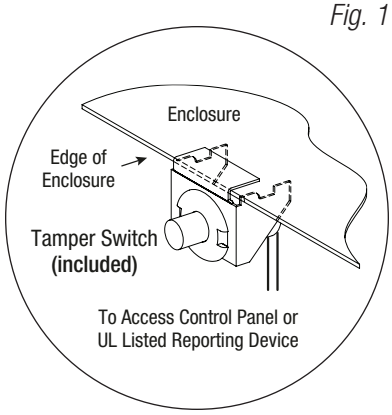
- 16 Gauge enclosure with ample knockouts for convenient access.
- Enclosure Dimensions (H x W x D): 36.12" x 30.125" x 7.06" (917.5mm x 768.1mm x 179.3mm).

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. Product is intended for indoor use only.

1. Remove backplane from enclosure. Do not discard hardware.
2. Mark and predrill holes in the wall to line up with the top three keyholes in the enclosure. Install three upper fasteners and screws in the wall with the screw heads protruding. Place the enclosure's upper keyholes over the three upper screws, level and secure. Mark the position of the lower three holes. Remove the enclosure. Drill the lower holes and install the three fasteners. Place the enclosure's upper keyholes over the three upper screws. Install the three lower screws and make sure to tighten all screws.
3. Mount included UL Listed tamper switches (Altronix Model TS112 or equivalent) in 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 tamper switch wiring to the Access Control Panel input or the appropriate UL Listed reporting device. To activate alarm signal open the door of the enclosure.
4. Connect unswitched AC power (120VAC 60Hz) to RSB. Use 14 AWG or larger for all power connections. Secure green wire lead to earth ground. Green "AC" LED on power supply board will turn on. This light can be seen through the LED lens on the door of the enclosure. **Keep power-limited wiring separate from non power-limited wiring (120VAC 60Hz Input, Battery Wires). Minimum 0.25" spacing must be provided. CAUTION: Do not touch exposed metal parts. Shut branch circuit power before installing or servicing equipment. There are no user serviceable parts inside. Refer installation and servicing to qualified service personnel.**
5. Refer to the *eFlow Power Supply/Charger Installation Guide* for eFlow104NB and eFlow102NB and corresponding *Sub-Assembly Installation Guides* for PDS16(CB), LINQ8ACM(CB) and VR10 for further installation instructions.
6. Mount Software House boards to backplane, refer to *pages 3-4*.
7. Mount backplane to enclosure with hardware.

Fig. 1



T3SH75XK1Q (T3SH75XK1DQ) Configuration:

1. Align the Software House boards on the backplane to match the boards' mounting holes with corresponding pems.
2. Fasten spacers (provided) to pems that match the hole pattern for Software House iSTAR Ultra GCM, iSTAR Ultra ACM, iSTAR Ultra ACM SE and/or I8, R8, I8-CSI boards *(Fig. 2, 2a, pg. 3)*.
3. Mount Software House boards to spacers utilizing provided meatal spacers and 5/16" pan head screws *(Fig. 2a, pg. 3)*.
   Note: Software House iSTAR Ultra ACM and iSTAR Ultra ACM SE boards have one (1) USB port each. Please orient the board in the appropriate position according to the *Fig. 2* below.
4. Fasten backplane to Trove3 enclosure utilizing lock nuts (provided).

Fig. 2

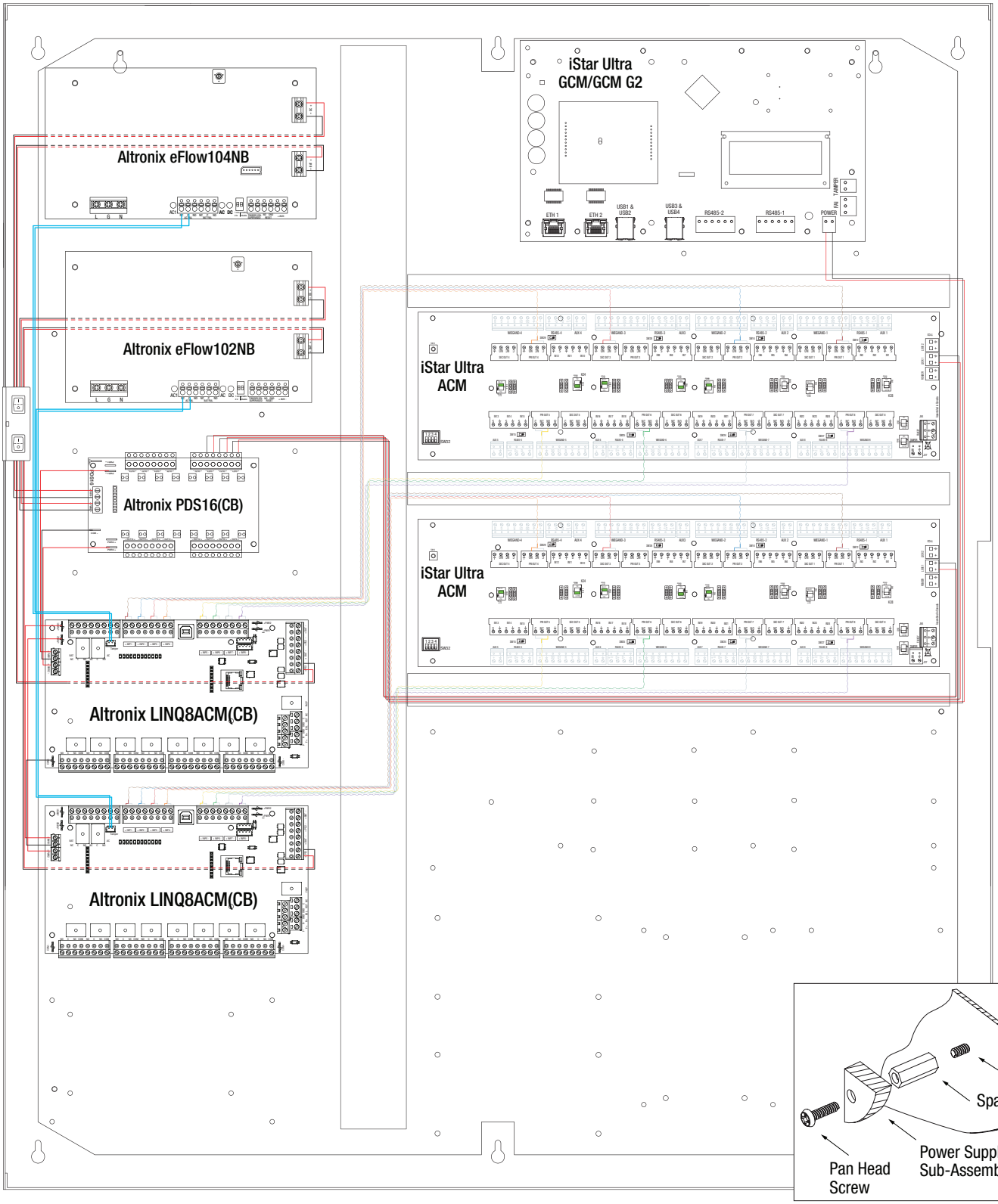


Fig. 2a

T3SH777XK1Q (T3SH777XK1DQ) Configuration:

1. Align the Software House boards on the backplane to match the boards' mounting holes with corresponding pems.
2. Fasten spacers (provided) to pems that match the hole pattern for Software House iSTAR Ultra GCM, iSTAR Ultra ACM, iSTAR Ultra ACM SE and/or I8, R8, I8-CSI boards *(Fig. 3, 3a, pg. 4)*.
3. Mount Software House boards to spacers utilizing provided meatal spacers and 5/16" pan head screws *(Fig. 3a, pg. 4)*.
   Note: Software House iSTAR Ultra ACM and iSTAR Ultra ACM SE boards have one (1) USB port each. Please orient the board in the appropriate position according to the *Fig. 3* below.
4. Fasten backplane to Trove3 enclosure utilizing lock nuts (provided).

Fig. 3

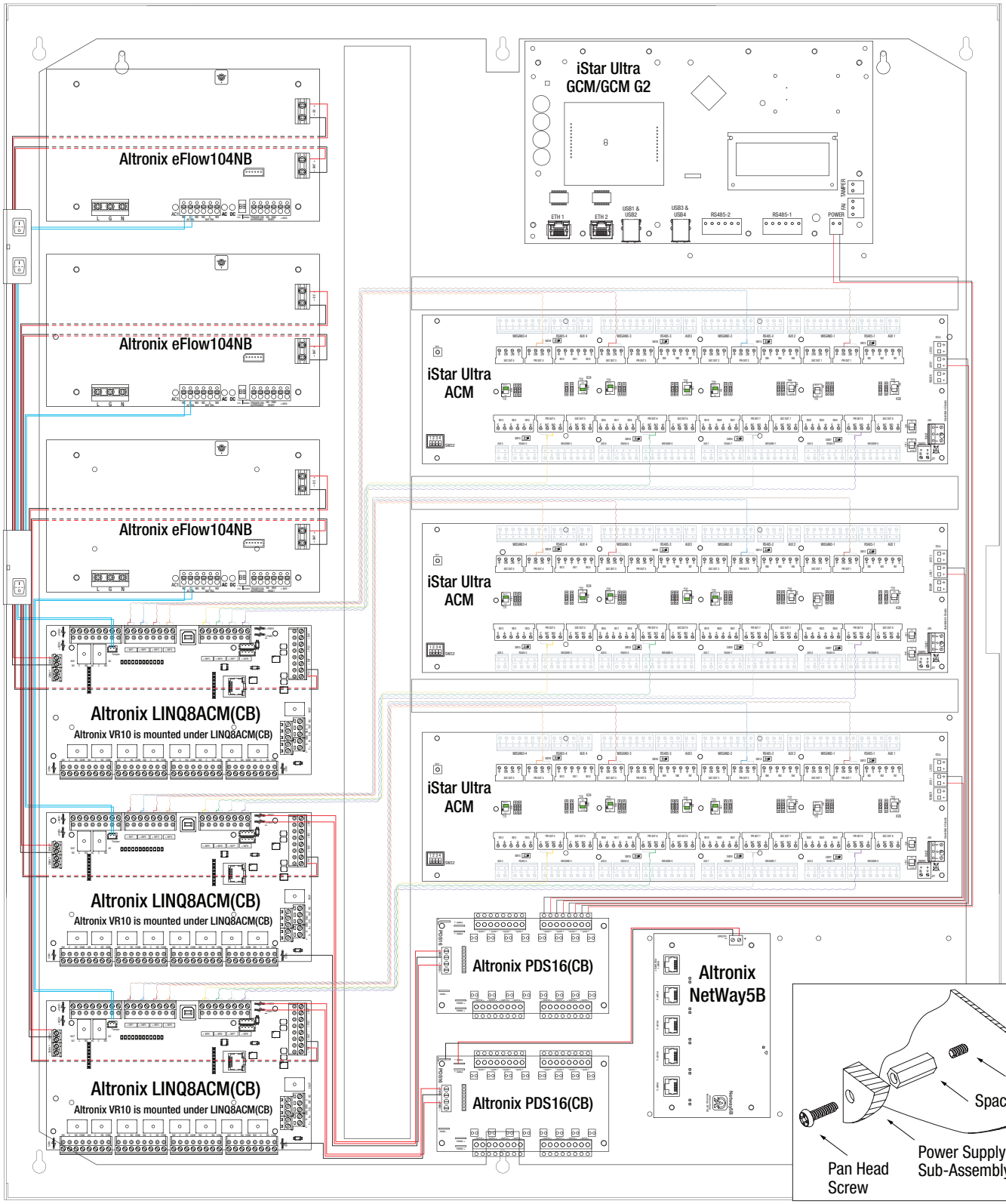


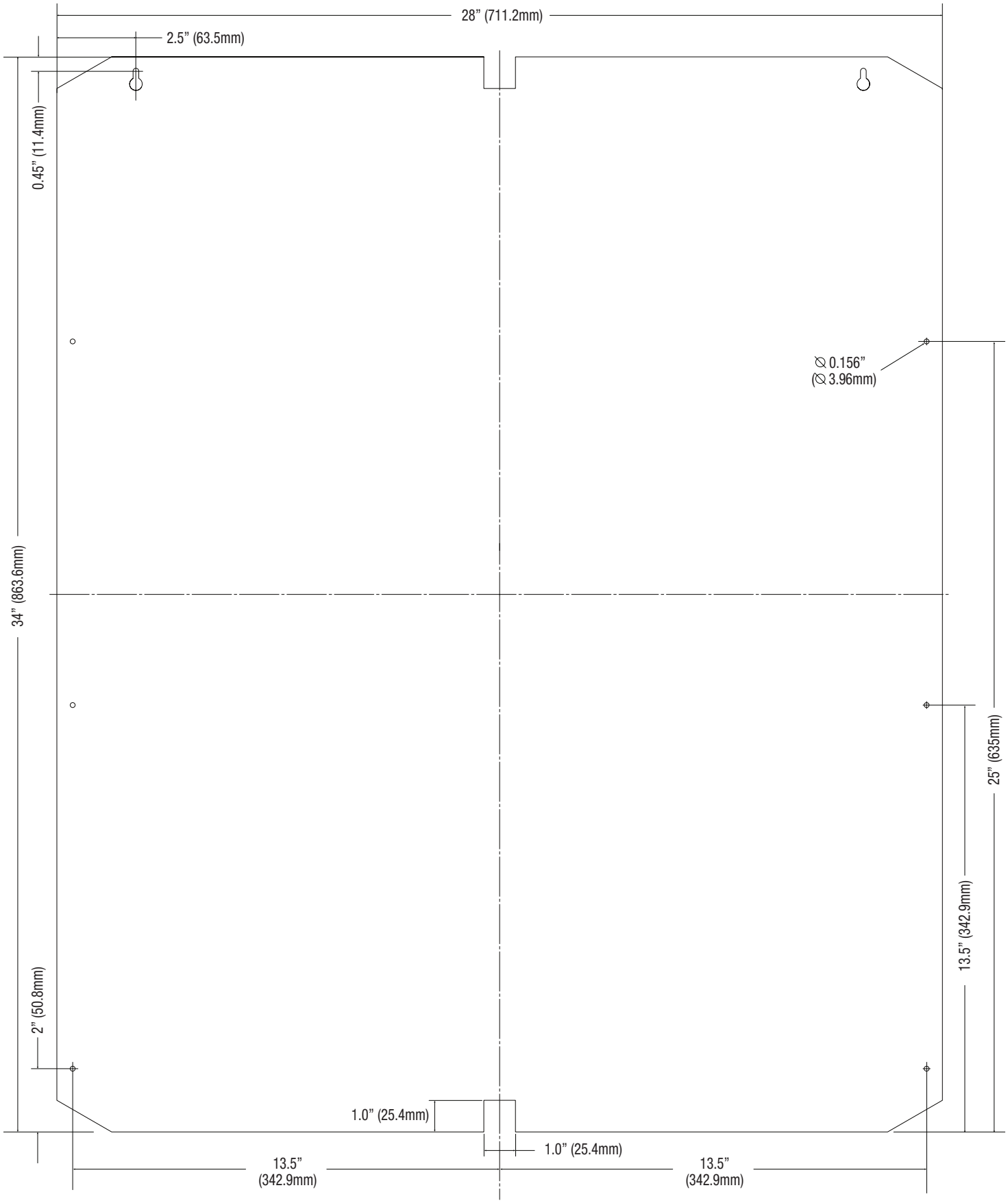
Fig. 3a

Notes:

Notes:

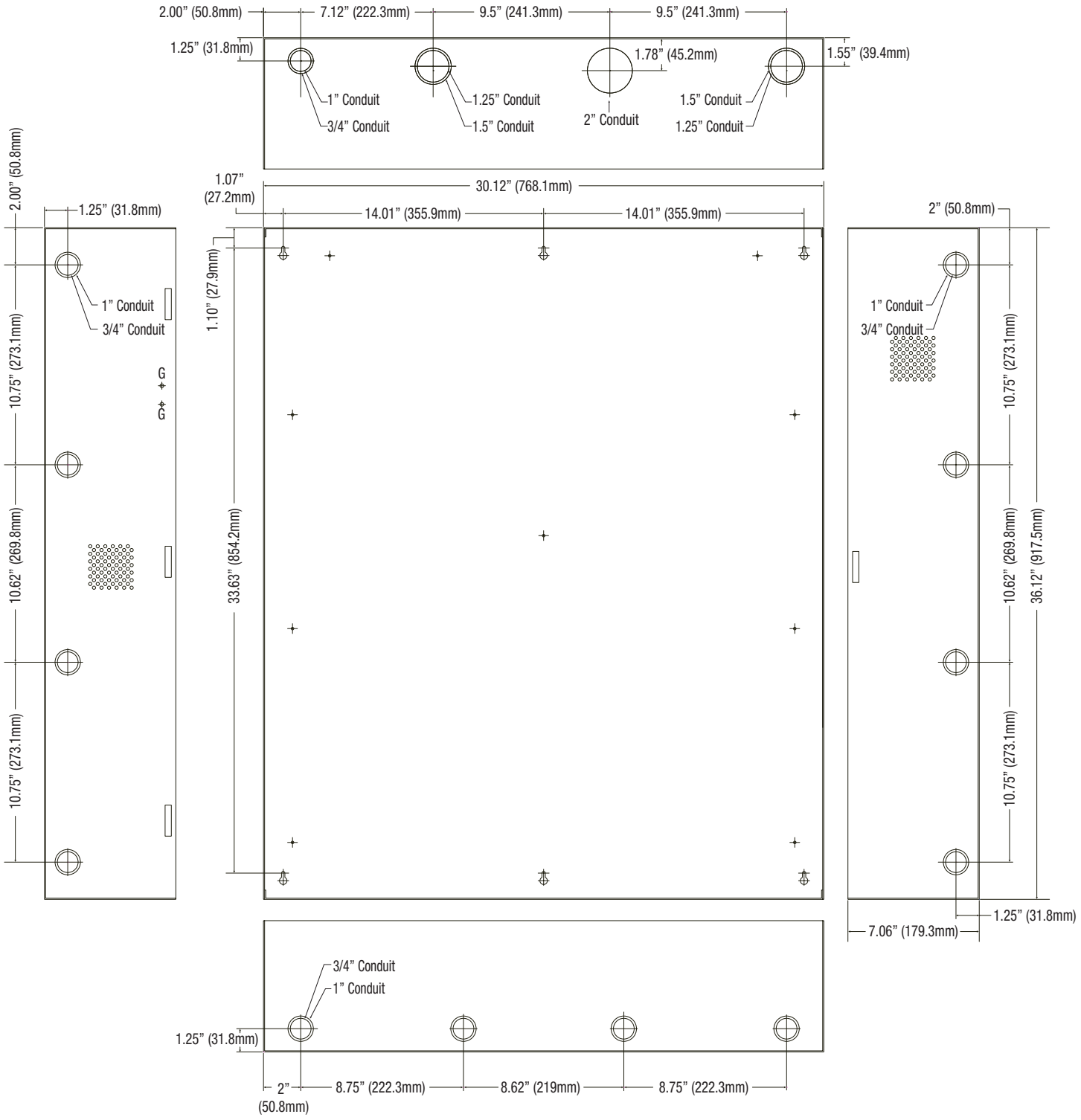
TSH3 Dimensions

34” x 28” x 0.3125” (863.6mm x 711.2mm x 7.9mm)



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)



Altronix is not responsible for any typographical errors. Product specifications are subject to change without notice.

140 58th Street, Brooklyn, New York 11220 USA | phone: 718-567-8181 | fax: 718-567-9056
website: www.altronix.com | e-mail: info@altronix.com | Lifetime Warranty

IIT3SHXKQ Series J27W