TROVE™ PLUS

Access & Power Integration

Altronix/Software House Wired Kits

Models Include:

T3SH75XK1

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) ACMS8 - Dual Input 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

T3SH75XK1D

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) ACMS8CB - Dual Input 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

T3SH777XK1

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) ACMS8 - Dual Input Fused Access Power Controllers
- Three (3) VR6 - Voltage Regulators
- Two (2) PDS16 - Dual Input Fused Power Distribution Module
- Two (2) Rocker Switch Brackets with Three (3) Rocker Switches
- Wire harnesses and finger duct

T3SH777XK1D

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) ACMS8CB - Dual Input PTC Access Power Controllers
- Three (3) VR6 - Voltage Regulators
- Two (2) PDS16CB - Dual Input PTC Power Distribution Module
- 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.™

Rev. T3SHXK102723

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 ACMS8(CB) Access Power Controller's outputs	Fail-Safe/ Fail-Secure or Dry Form "C" Outputs	Current Per ACMS8(CB) and PDS16(CB) Output (A)	ACMS8(CB) and PDS16(CB) Board Input Fuse (PTC) Rating	ACMS8(CB) and PDS16(CB) Board Output Fuse (PTC) Rating
				Power Supply 1		Power Supply 2						
				[DC]	[Aux]	[DC]	[Aux]					
				Output Range (VDC)	Output Range (VDC)	Output Range (VDC)	Output Range (VDC)					
T3SH75XK1	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
T3SH75XK1D										2.0	9A	2.5A
T3SH777XK1	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
T3SH777XK1D										2.0	9A	2.5A

Hardware and Accessories:

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

Mechanical:

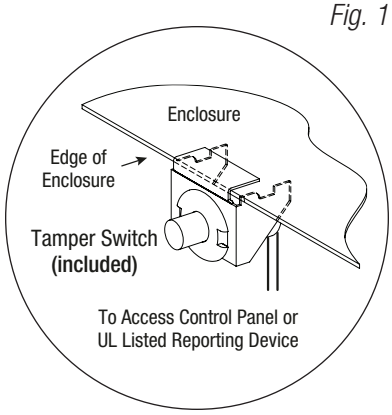
- 16 Gauge enclosure with ample knockouts for convenient access.
- Enclosure Dimensions (H x W x D): 36.12" x 30.125" x 7.06" (917.5mm x 768.1mm x 179.3mm).

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. Mount Mercury boards to backplane, refer to *pg. 3, 4.*
5. Refer to the *eFlow Power Supply/Charger Installation Guide* for eFlow104NB and eFlow102NB and corresponding *Sub-Assembly Installation Guides* for PDS16(CB), VR6 and ACMS8(CB) 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



T3SH75XK1 (T3SH75XK1D) 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

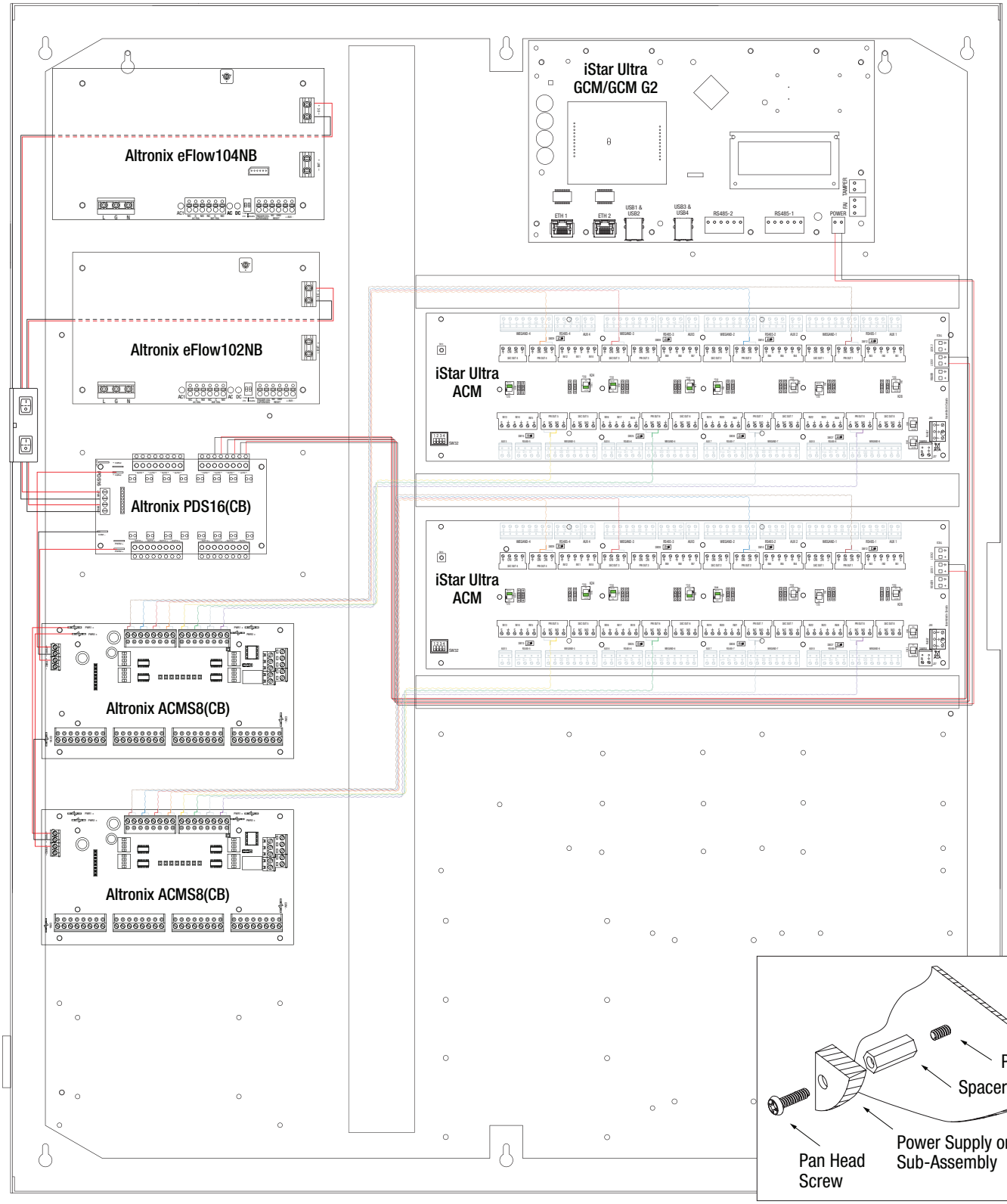


Fig. 2a

T3SH777XK1 (T3SH777XK1D) 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

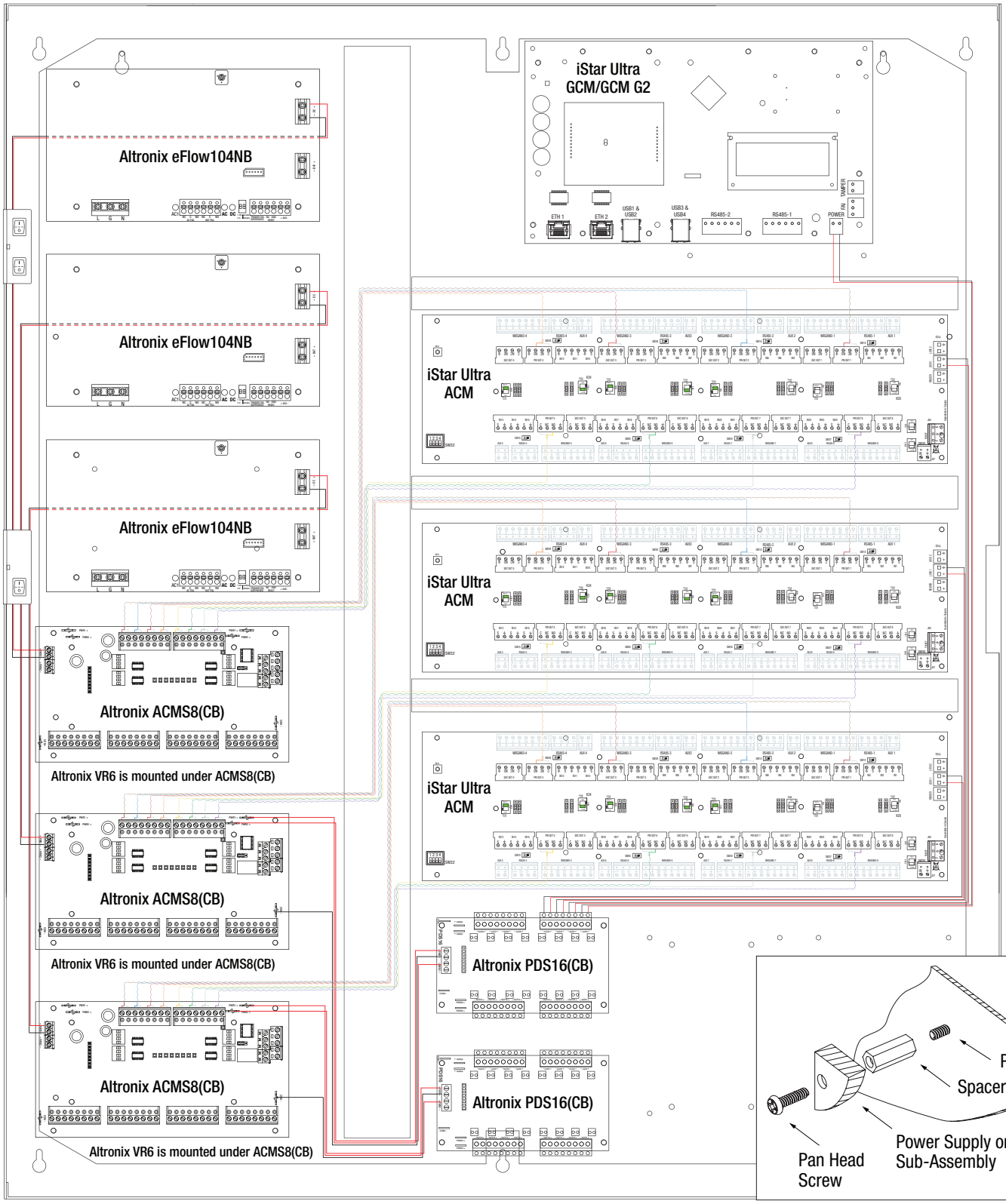
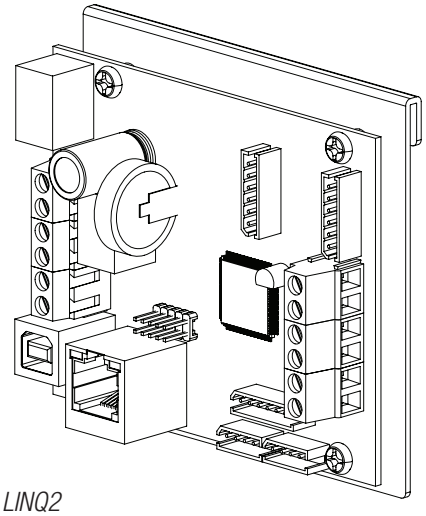


Fig. 3a

Notes:

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



LINQ2

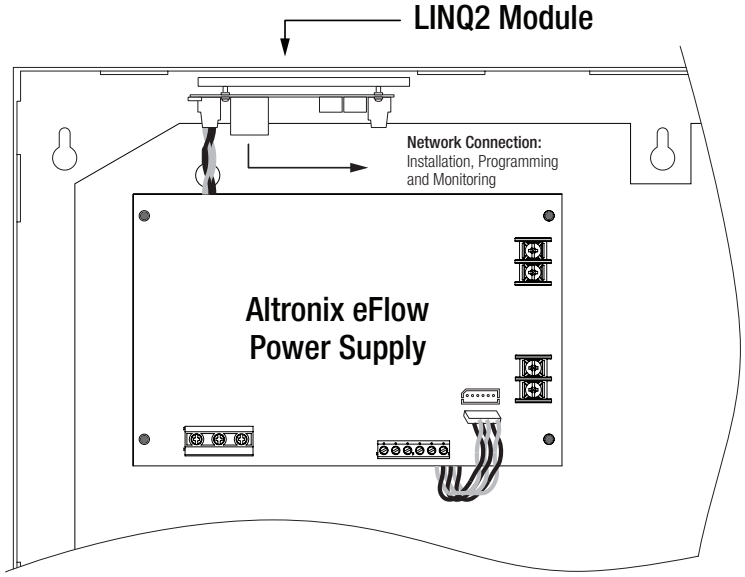
LINQ2 - Network Communication Module

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 Total Cost of Ownership (TCO) - as well as creating a new source of Recurring Monthly Revenue (RMR).

Features:

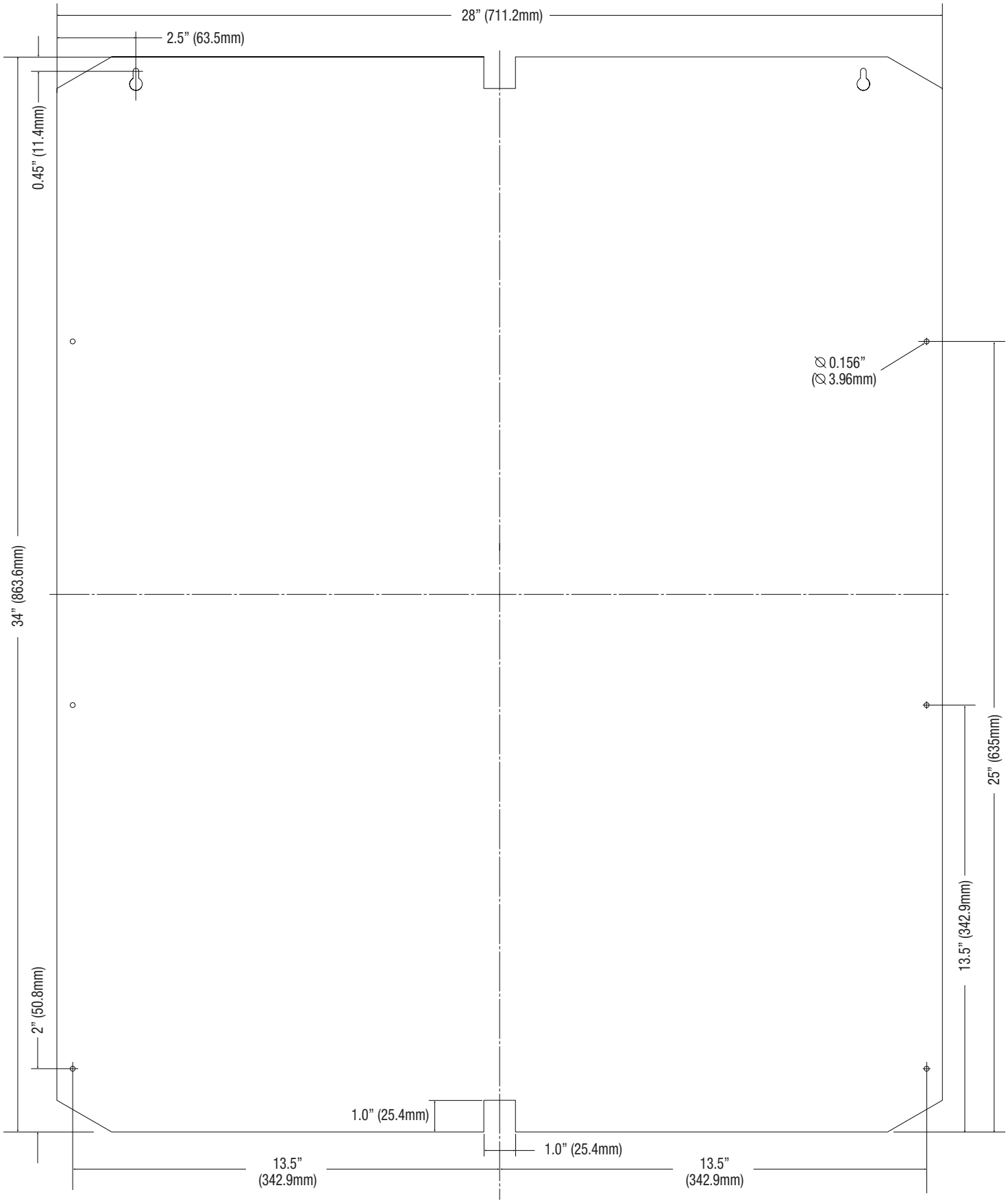
- UL Listed in the U.S. and Canada.
- Local or remote control of up to (2) two Altronix eFlow power output(s) via LAN and/or WAN.
- Monitor real time diagnostics: DC output voltage, output current, AC & battery status/service, input trigger state change, output state change and unit temperature.
- Access control and user managment: 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
- 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



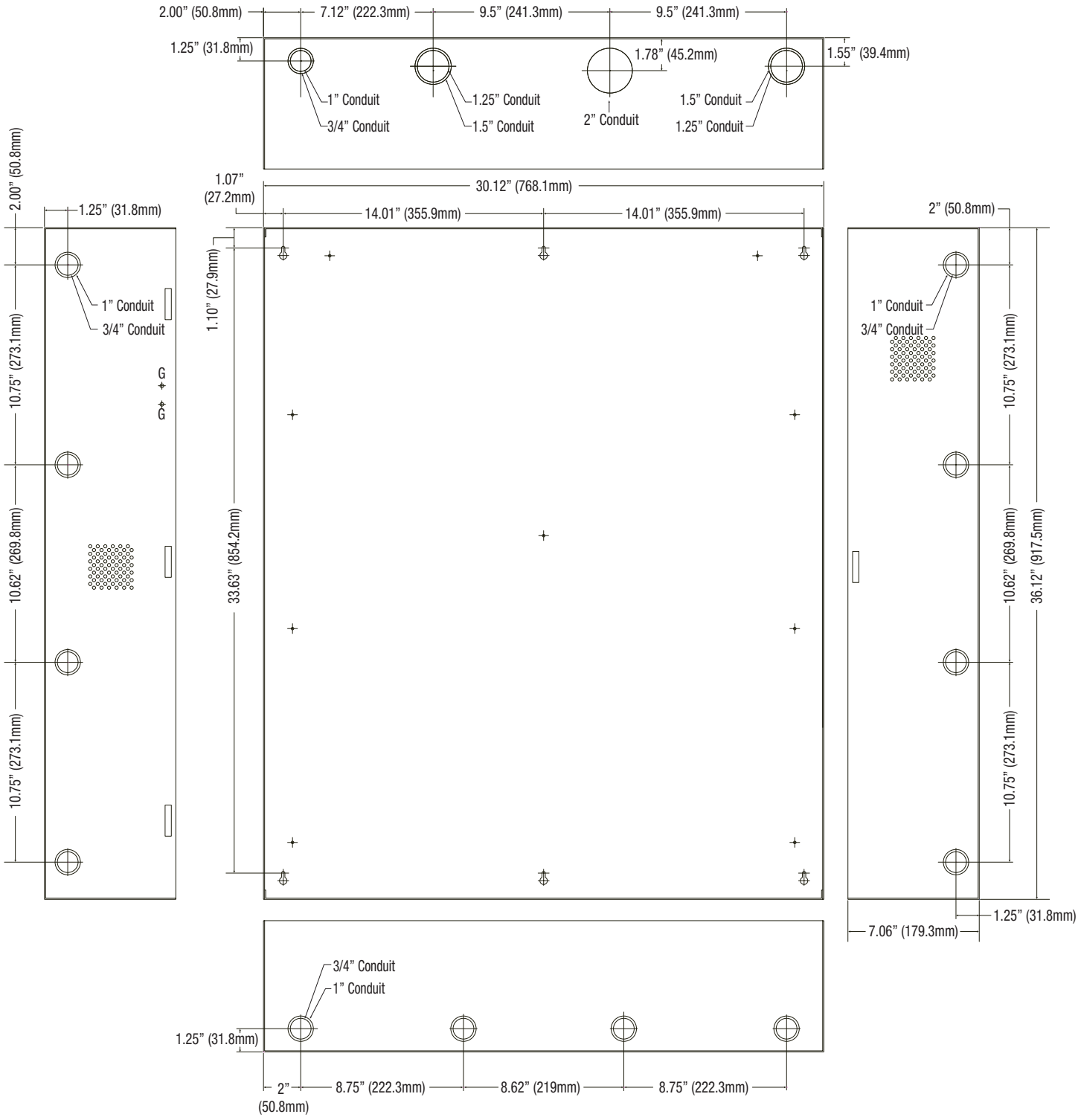
TSH3 Dimensions

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)



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website: www.altronix.com | e-mail: info@altronix.com | Lifetime Warranty

IIT3SHXK Series J27W