TROVE™

Access & Power Integration

Altronix/Software House Kits

Models Include:

T2SK75F

16 Door Kit with Fused Outputs

Fully assembled kit includes:

- Trove2 enclosure with TSH2 Altronix/Software House backplane
- One (1) eFlow104NB - Power Supply/Charger
- One (1) eFlow102NB - Power Supply/Charger

T2SK7F8

8 Door Kit with Fused Outputs

Fully assembled kit includes:

- Trove2 enclosure with TSH2 Altronix/Software House backplane
- One (1) eFlow104NB - Power Supply/Charger
- One (1) ACM8 - Fused Access Power Controller
- One (1) VR6 - Voltage Regulator
- One (1) PDS8 - Dual Input Fused Power Distribution Module
- One (1) Rocker Switch Bracket with One (1) Rocker Switch (Not evaluated by UL)

T2SK7F8D

8 Door Kit with PTC Outputs

Fully assembled kit includes:

- Trove2 enclosure with TSH2 Altronix/Software House backplane
- One (1) eFlow104NB - Power Supply/Charger
- One (1) ACM8CB - PTC Access Power Controller
- One (1) VR6 - Voltage Regulator
- One (1) PDS8CB - Dual Input PTC Power Distribution Module
- One (1) Rocker Switch Bracket with One (1) Rocker Switch (Not evaluated by UL)

T3SK75F8

8 Door Kit with Fused Outputs

Fully assembled kit includes:

- Trove3 enclosure with TSH3 Altronix/Software House backplane
- One (1) eFlow104NB - Power Supply/Charger
- One (1) eFlow102NB - Power Supply/Charger
- One (1) ACM8 - Fused Access Power Controller
- One (1) PD8UL - Fused Power Distribution Module
- One (1) Rocker Switch Bracket with Two (2) Rocker Switches (Not evaluated by UL)

T3SK75F8D

8 Door Kit with PTC Outputs

Fully assembled kit includes:

- Trove3 enclosure with TSH3 Altronix/Software House backplane
- One (1) eFlow104NB - Power Supply/Charger
- One (1) eFlow102NB - Power Supply/Charger
- One (1) ACM8CB - PTC Access Power Controller
- One (1) PD8ULCB - PTC Power Distribution Module
- One (1) Rocker Switch Bracket with Two (2) Rocker Switches (Not evaluated by UL)

T3SK75F16

16 Door Kit with Fused Outputs

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) ACM8 - Fused Access Power Controllers
- One (1) PD8UL - Fused Power Distribution Module
- One (1) Rocker Switch Bracket with Two (2) Rocker Switches (Not evaluated by UL)

T3SK75F16D

16 Door Kit with PTC Outputs

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) ACM8CB - PTC Access Power Controllers
- One (1) PD8ULCB - PTC Power Distribution Module
- One (1) Rocker Switch Bracket with Two (2) Rocker Switches (Not evaluated by UL

All components of these Trove kits are UL Listed sub-assemblies.
Please refer to the included corresponding Sub-Assembly Installation Guides for further information.

Installation Guide

Altronix®

More than just power.™

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Rev. TSK072522

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____

Overview:

Altronix Trove Software House kits are pre-assembled and consist of Trove enclosure with factory installed Altronix power supply/chargers and sub-assemblies. These kits also accommodate various combinations of Software House boards for up to sixteen (16) doors in a single enclosure.

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 Options								Maximum Supply Current for Main and Aux. Outputs on Power Supply board and ACM8(CB) Access Power Controller's outputs (A)	Fail-Safe/Fail-Secure Outputs	Current Per ACM8(CB) Output (A)	ACM8(CB) Board Input Fuse Rating	ACM8(CB) Board Output Fuse (PTC) Rating	PDS8(CB) Board Input Fuse (PTC) Rating	PDS8(CB) Board Output Fuse (PTC) Rating	PD8UL(CB) Board Output Fuse (PTC) Rating
				Power Supply 1				Power Supply 2											
				[DC]		[AUX]		[DC]		[AUX]									
				12VDC Output Range (V)	24VDC Output Range (V)	12VDC Output Range (V)	24VDC Output Range (V)	12VDC Output Range (V)	24VDC Output Range (V)	12VDC Output Range (V)	24VDC Output Range (V)								
T2SK75F	8.0	6.3A/250V (eFlow104NB) 5A/250V (eFlow102NB)	15A/ 32V	eFlow104NB				eFlow102NB				–	–	–	–	–	–	–	–
				–	20.19-26.4	–	20.19-26.4	10.0-13.2	–	10.03-13.2	–								
T2SK7F8	4.5	6.3A/250V	15A/ 32V	eFlow104NB				N/A				24VDC @ 9.2A	8	2.5	10A/ 250V	3.5A/ 250V	10A/ 32V	3A/ 32V	–
T2SK7F8D				–	20.17-26.4	–	20.17-26.4	N/A						2.0		2.5A	9A	2.5A	
T3SK75F8	8.0	6.3A/250V (eFlow104NB) 5A/250V (eFlow102NB)	15A/ 32V	eFlow104NB				eFlow102NB				24VDC @ 9.2A	8	2.5	10A/ 250V	3.5A/ 250V	–	–	3.5A/ 250V
T3SK75F8D				–	20.19-26.4	–	20.19-26.4	10.0-13.2	–	10.03-13.2	–			2.0		2.5A			2.5A
T3SK75F16	8.0	6.3A/250V (eFlow104NB) 5A/250V (eFlow102NB)	15A/ 32V	eFlow104NB				eFlow102NB				24VDC @ 9.2A	16	2.5	10A/ 250V	3.5A/ 250V	–	–	3.5A/ 250V
T3SK75F16D				–	20.19-26.4	–	20.19-26.4	10.0-13.2	–	10.03-13.2	–			2.0		2.5A			2.5A

Hardware and Accessories:

Metal or Nylon Spacer | 5/16" Pan Head Screw | Lock Nut

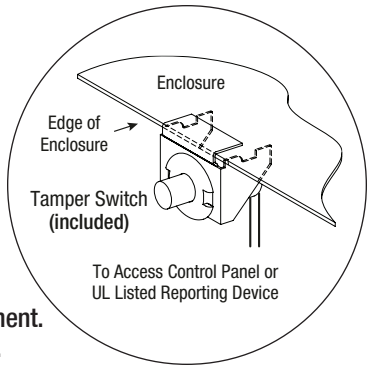
- Tamper switch (Altronix Model TS112 or equivalent) - one (1) for **T2SK75F** or **T2SK7F8(D)**, two (2) for **T3SK75F8(D)** or **T3SK75F16(D)**.
- Cam lock.
- Battery leads.

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 switch (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 terminals marked [L, N]. 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. Measure voltage before connecting devices. This helps avoiding potential damage.
6. Mount Software House boards to backplane, *refer to pages 3-8.*
7. Refer to the corresponding *eFlow Power Supply/Charger Installation Guide* for eFlow104NB and eFlow102NB and corresponding *Sub-Assembly Installation Guides* for the following models: PD8UL(CB), ACM8(CB), PDS8(CB), VR6 for further installation instructions.

Fig. 1



T2SK75F: 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 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 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 Trove2 enclosure utilizing lock nuts (provided).

Fig. 2

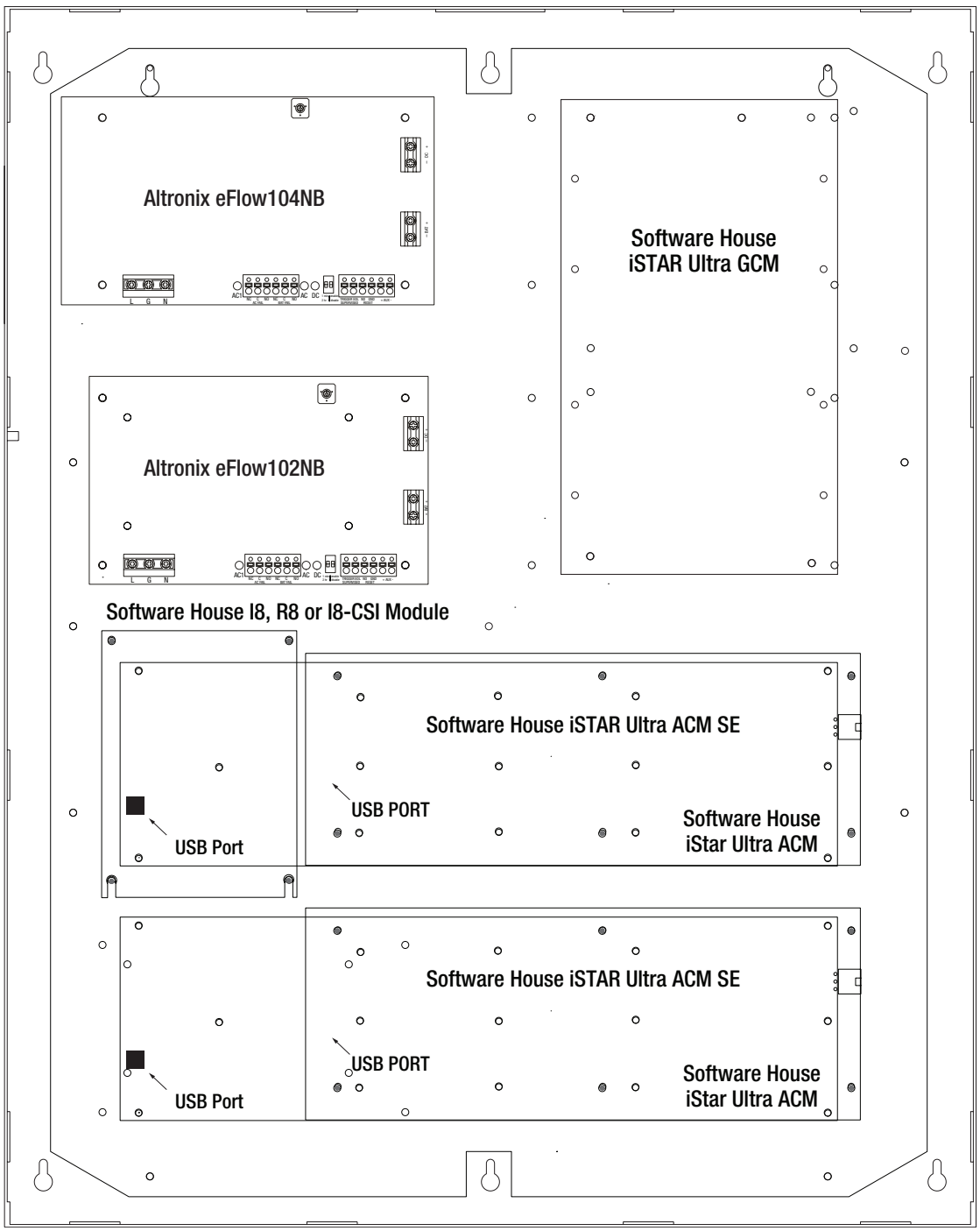
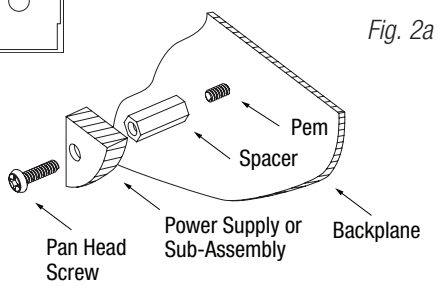


Fig. 2a



T2SK7F8 and T2SK7F8D: 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 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 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 Trove2 enclosure utilizing lock nuts (provided).

Fig. 3

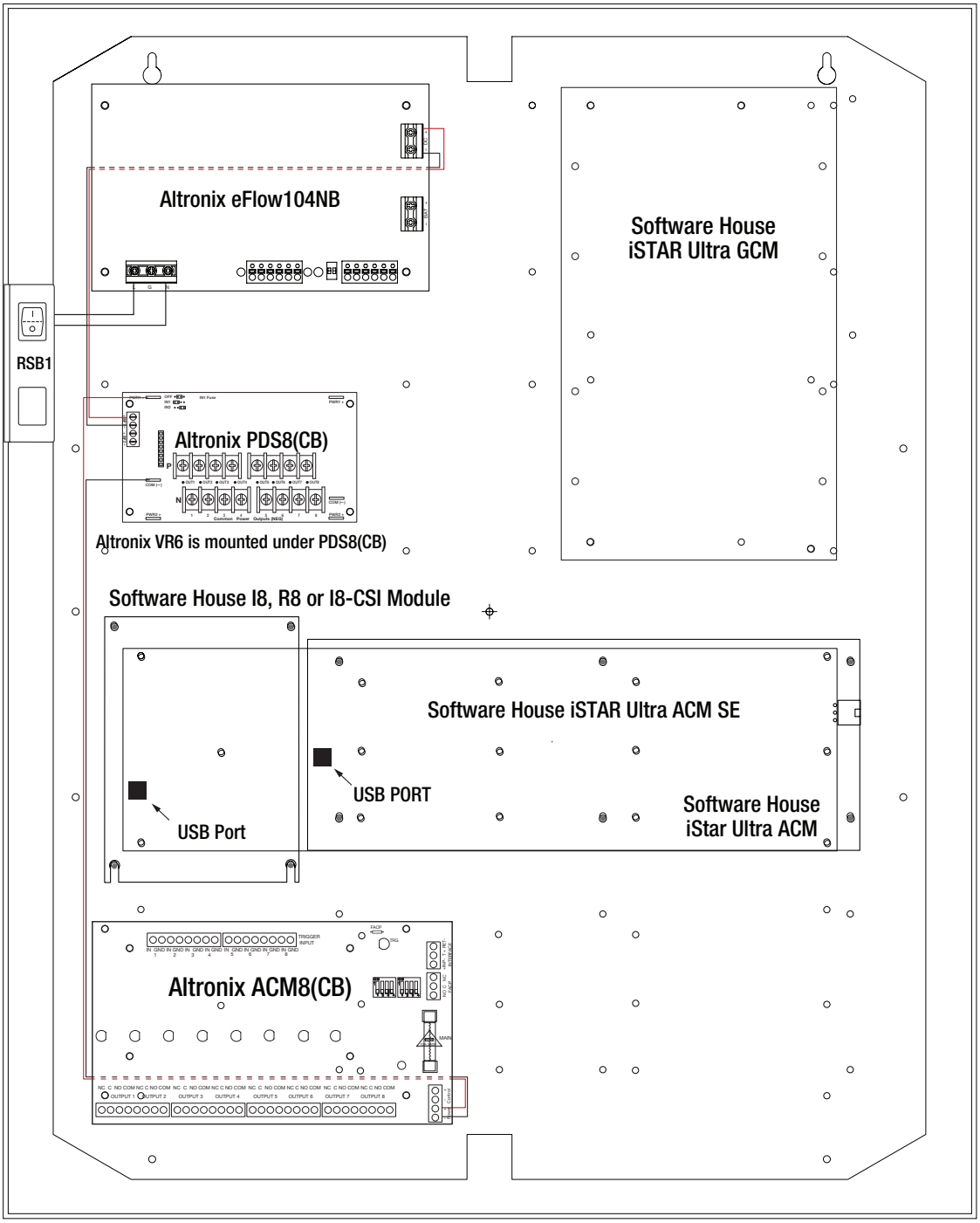
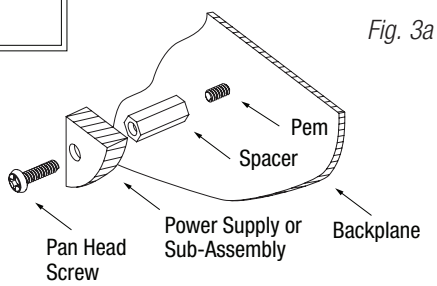


Fig. 3a



T3SK75F8 and T3SK75F8D: Configuration of Software House iSTAR Ultra ACM Boards

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

Fig. 4

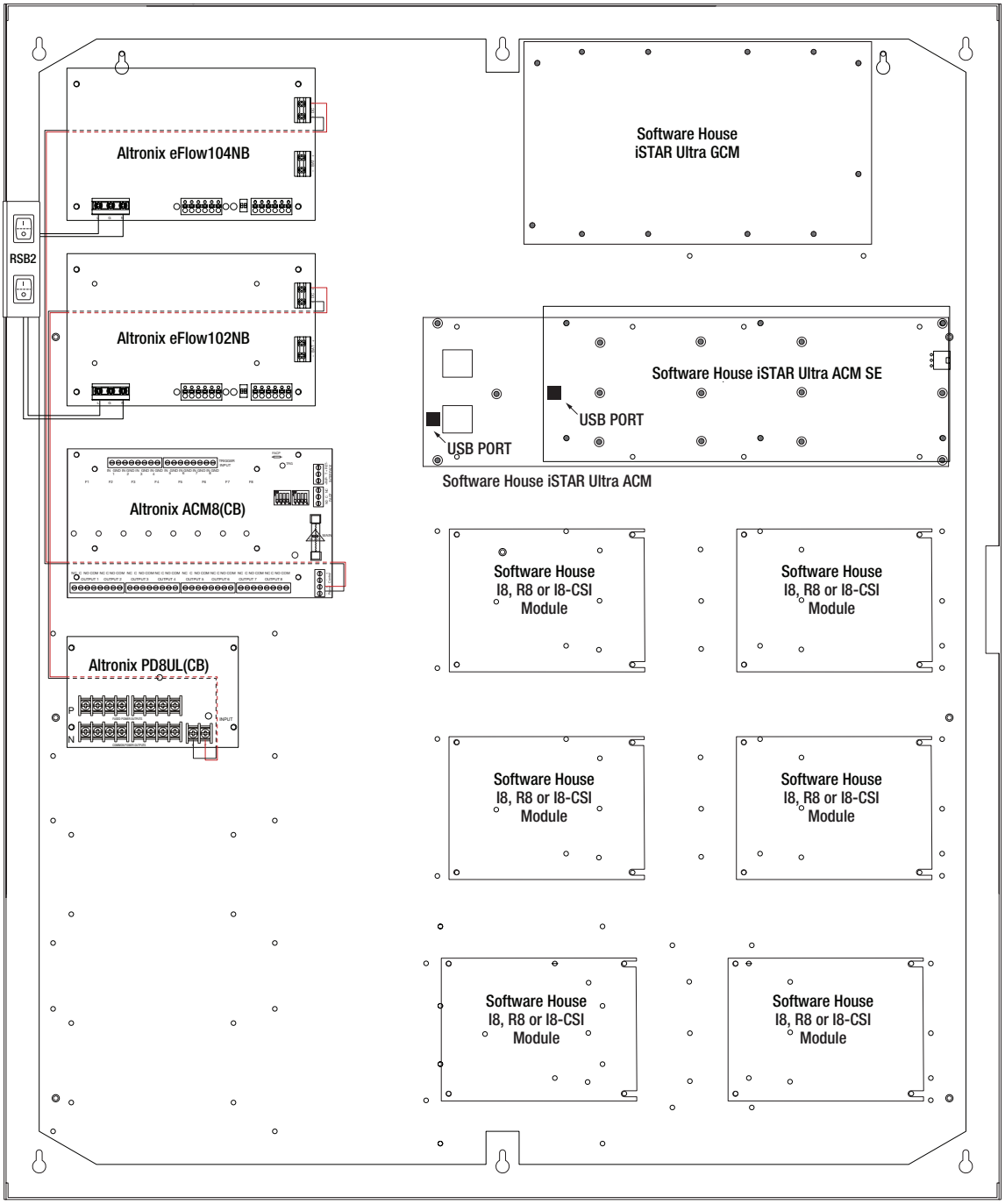
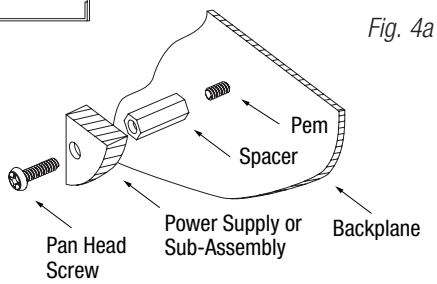


Fig. 4a



T3SK75F16 and T3SK75F16D: Configuration of Software House iSTAR Ultra ACM Boards

1. Align the Software House boards on the backplane to match the boards' mounting holes with pems provided.
2. Fasten spacers (provided) to pems that match the hole pattern for Software House iSTAR Ultra GCM, iSTAR Ultra ACM, and/or I8, R8, I8-CSI boards *(Fig. 5, 5a, pg. 6)*.
3. Mount Software House boards to spacers utilizing provided 5/16" pan head screws *(Fig. 5a, pg. 6)*.
   Note: Software House iSTAR Ultra ACM boards have one (1) USB port each. Please orient the board in the appropriate position according to the *Fig. 5* below.
4. Fasten backplane to Trove3 enclosure utilizing lock nuts (provided).

Fig. 5

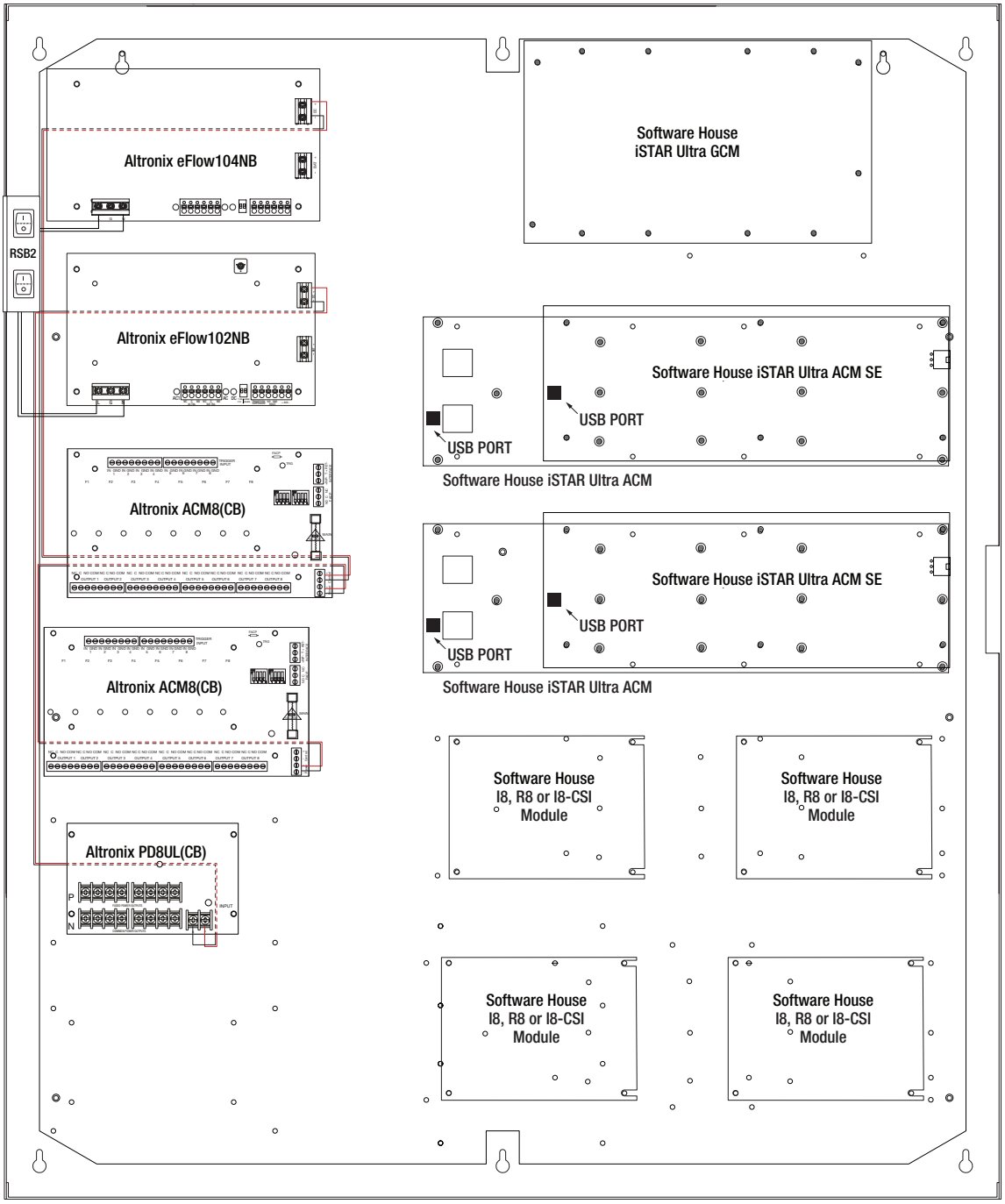
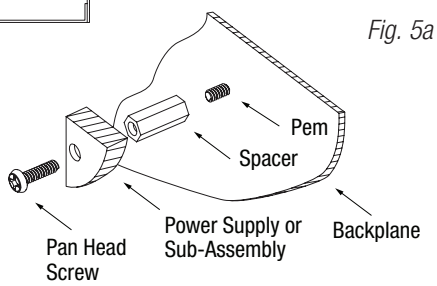
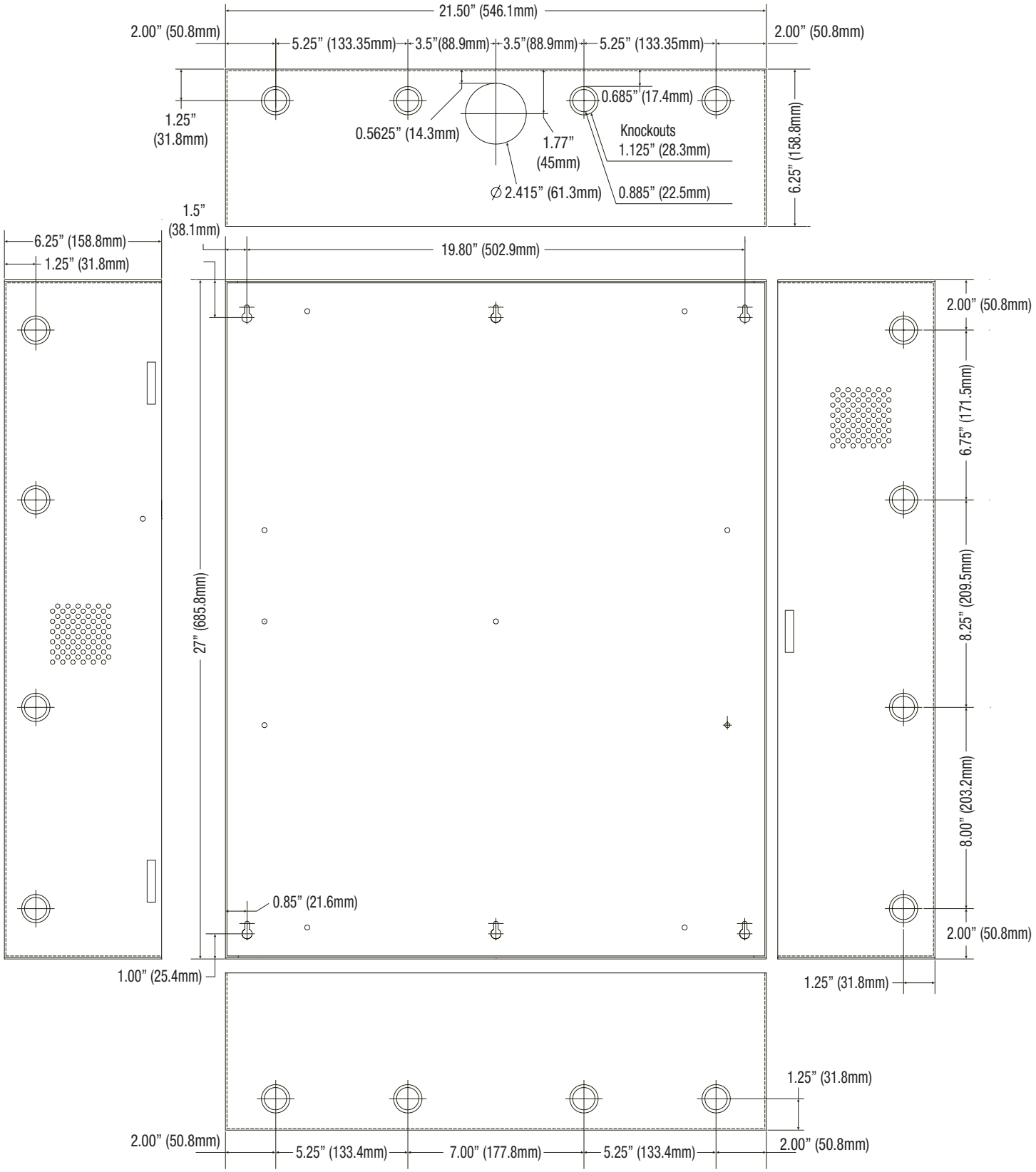


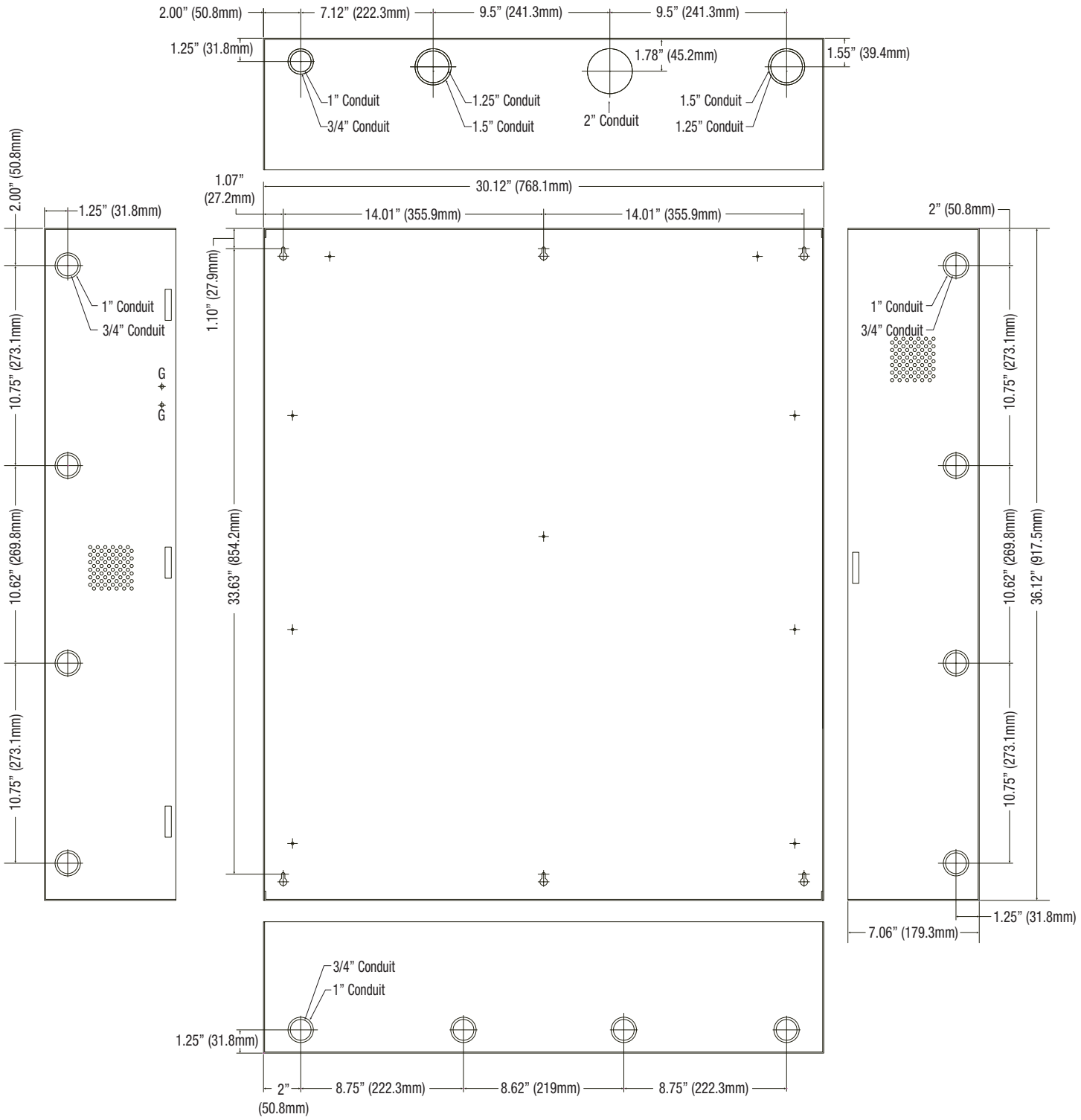
Fig. 5a



T2SK75F & T2SK7F8(D) Enclosure Dimensions (H x W x D approximate)**:**

27.25” x 21.5” x 6.5” (692.2mm x 552.5mm x 165.1mm)



T3SK75F8(D) and T3SK75F16(D) Enclosure Dimensions (H x W x D approximate)**:**

36.12” x 30.125” x 7.06” (917.5mm x 768.1mm x 179.3mm)