TROVE™

Access & Power Integration

Altronix/Galaxy Kits

Models Include:

T1GXK3F4
2 Door Kit with Fused Outputs

Fully assembled kit includes:
- Trove1 enclosure with TDR1 backplane
- One (1) eFlow6NB - Power Supply/Charger
- One (1) ACM4 - Fused Access Power Controller
- One (1) VR6 - Voltage Regulator
- One (1) PDS8 - Dual Input Fused Power Distribution Module

T2GXK7F8S
8 Door Kit with Fused Outputs

Fully assembled kit includes:
- Trove2 enclosure with TCV2 backplane
- One (1) eFlow104NB - Power Supply/Charger
- One (1) ACMS8 - Dual Input Fused Access Power Controller
- One (1) VR6 - Voltage Regulator
- One (1) PDS8 - Dual Input Fused Power Distribution Module

T3GXK77F16S
16 Door Kit with Fused Outputs

Fully assembled kit includes:
- Trove3 enclosure with TSS3 backplane
- Two (2) eFlow104NB - Power Supply/Chargers
- Two (2) ACMS8 - Dual Input Fused Access Power Controllers
- Two (2) VR6 - Voltage Regulators
- Two (2) PDS8 - Dual Input Fused Power Distribution Modules

T3GXK775F24S
24 Door Kit with Fused Outputs

Fully assembled kit includes:
- Trove3 enclosure with TSS3 backplane
- Two (2) eFlow104NB - Power Supply/Chargers
- One (1) eFlow102NB - Power Supply/Chargers
- Three (3) ACMS8 - Dual Input Fused Access Power Controllers
- Two (2) VR6 - Voltage Regulators
- Two (2) PDS8 - Dual Input Fused Power Distribution Modules

T1GXK3F4D
2 Door Kit with PTC Outputs

Fully assembled kit includes:
- Trove1 enclosure with TDR1 backplane
- One (1) eFlow6NB - Power Supply/Charger
- One (1) ACM4CB - PTC Access Power Controller
- One (1) VR6 - Voltage Regulator
- One (1) PDS8CB - Dual Input PTC Power Distribution Module

T2GXK7F8SD
8 Door Kit with PTC Outputs

Fully assembled kit includes:
- Trove2 enclosure with TCV2 backplane
- One (1) eFlow104NB - Power Supply/Charger
- One (1) ACMS8CB - Dual Input PTC Access Power Controller
- One (1) VR6 - Voltage Regulator
- One (1) PDS8CB - Dual Input PTC Power Distribution Module

T3GXK77F16SD
16 Door Kit with PTC Outputs

Fully assembled kit includes:
- Trove3 enclosure with TSS3 backplane
- Two (2) eFlow104NB - Power Supply/Chargers
- Two (2) ACMS8CB - Dual Input PTC Access Power Controllers
- Two (2) VR6 - Voltage Regulators
- Two (2) PDS8CB - Dual Input PTC Power Distribution Modules

T3GXK775F24SD
24 Door Kit with PTC Outputs

Fully assembled kit includes:
- Trove3 enclosure with TSS3 backplane
- Two (2) eFlow104NB - Power Supply/Chargers
- One (1) eFlow102NB - Power Supply/Chargers
- Three (3) ACMS8CB - Dual Input PTC Access Power Controllers
- Two (2) VR6 - Voltage Regulators
- Two (2) PDS8CB - Dual Input PTC Power Distribution Modules

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.™

Rev. TGXK_091125

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____

Overview:

Altronix Trove Galaxy kits are pre-assembled and consist of Trove enclosures/backplanes with factory installed Altronix power supply/chargers and sub-assemblies. All kits accommodate a variety of Galaxy modules for up to twenty-four doors in a single enclosure.

Configuration Chart:

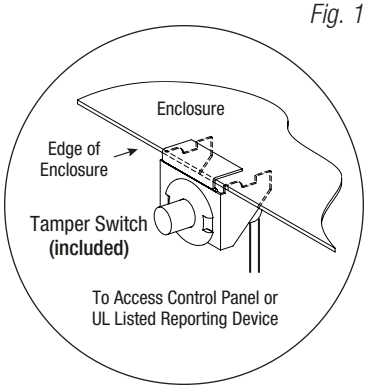
Altronix Model Number	120VAC 60Hz Input Current (A)	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	Maximum Supply Current for Main and Aux. Outputs on Power Supply board and ACM4(CB)/ACMS8(CB) Access Power Controllers' outputs	Nominal DC Output Voltage [DC] Output Range (VDC)	Nominal DC Output Voltage [Aux] Output Range (VDC)	Fail-Safe/Fail-Secure Outputs	Additional Fused (PTC) Outputs	ACM4(CB)/ACMS8(CB) Board Input Fuse (PTC) Rating	ACM4(CB)/ACMS8(CB) Board Output Fuse (PTC) Rating	PDS8(CB) Board Input Fuse (PTC) Rating	PDS8(CB) Board Output Fuse (PTC) Rating
T1GXK3F4	3.5	5A/ 250V	15A/ 32V	24VDC @ 5.7A	20.17-26.4	20.28-26.4	4	8	10A/ 32V	3A/ 32V	10A/ 32V	3A/ 32V
T1GXK3F4D									9A	2.5A	9A	2.5A
T2GXK7F8S	4.5	6.3A/250V	15A/ 32V	24VDC @ 9.7A	20.17-26.4	20.28-26.4	8	8	15A/ 32V	3.5A/ 250V	10A/ 32V	3A/ 32V
T2GXK7F8SD									9A	2.5A	9A	2.5A
T3GXK77F16S	9.0	6.3A/250V	15A/ 32V	24VDC @ 9.7A	20.17-26.4	20.28-26.4	16	16	15A/ 32V	3.5A/ 250V	10A/ 32V	3A/ 32V
T3GXK77F16SD									9A	2.5A	9A	2.5A
T3GXK775F24S	12.5	eFlow104NB 6.3A/250V	15A/ 32V	24VDC @ 9.6A + 24VDC @ 9.6A	20.17-26.4	20.28-26.4	24	16	15A/ 32V	3.5A/ 250V	10A/ 32V	3A/ 32V
		eFlow102NB 5A/250V			9.7-13.2	10.03-13.2						
T3GXK775F24SD		eFlow104NB 6.3A/250V			20.17-26.4	20.28-26.4			9A	2.5A	9A	2.5A
		eFlow102NB 5A/250V			9.7-13.2	10.03-13.2						

Installation Instructions for Trove1, Trove2, Trove3:

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 two/three keyholes in the enclosure. Install two/three upper fasteners and screws in the wall with the screw heads protruding. Place the enclosure's upper keyholes over the two/three upper screws, level and secure. Mark the position of the lower two/three holes. Remove the enclosure. Drill the lower holes and install the two/three fasteners. Place the enclosure's upper keyholes over the upper screws. Install the two/three lower screws and make sure to tighten all screws.
3. Mount included UL Listed tamper switch(es) (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 (115VAC 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 (115VAC 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 Galaxy modules to backplane(s), refer to *pages 3, 4, 5, 6, 7*.
7. Refer to the *eFlow Power Supply/Charger Installation Guide* for eFlow6NB, eFlow104NB, eFlow102NB and corresponding *Sub-Assembly Installation Guides* for ACM4(CB), ACMS8(CB), PDS8(CB) and VR6 for further installation instructions.

Fig. 1



Hardware:

T1GXK3F4 and T1GXK3F4D: Configuration of Galaxy Modules:

1. Fasten mounting magnets (provided) to Galaxy modules with screws and spacers (provided) using the controllers' mounting holes *(Fig. 2, pg. 3)*.
2. Attach mounting magnets to TDR1 in the approximate position as shown below *(Fig. 2a, pg. 3)*.
3. Fasten TDR1 backplane to Trove1 enclosure utilizing lock nuts (provided by Altronix).

Galaxy Access Controller Position Chart for the Following Models:

Galaxy	Pem Mounting
635 CPU	(A)
635 DRM	(B)

Fig. 2

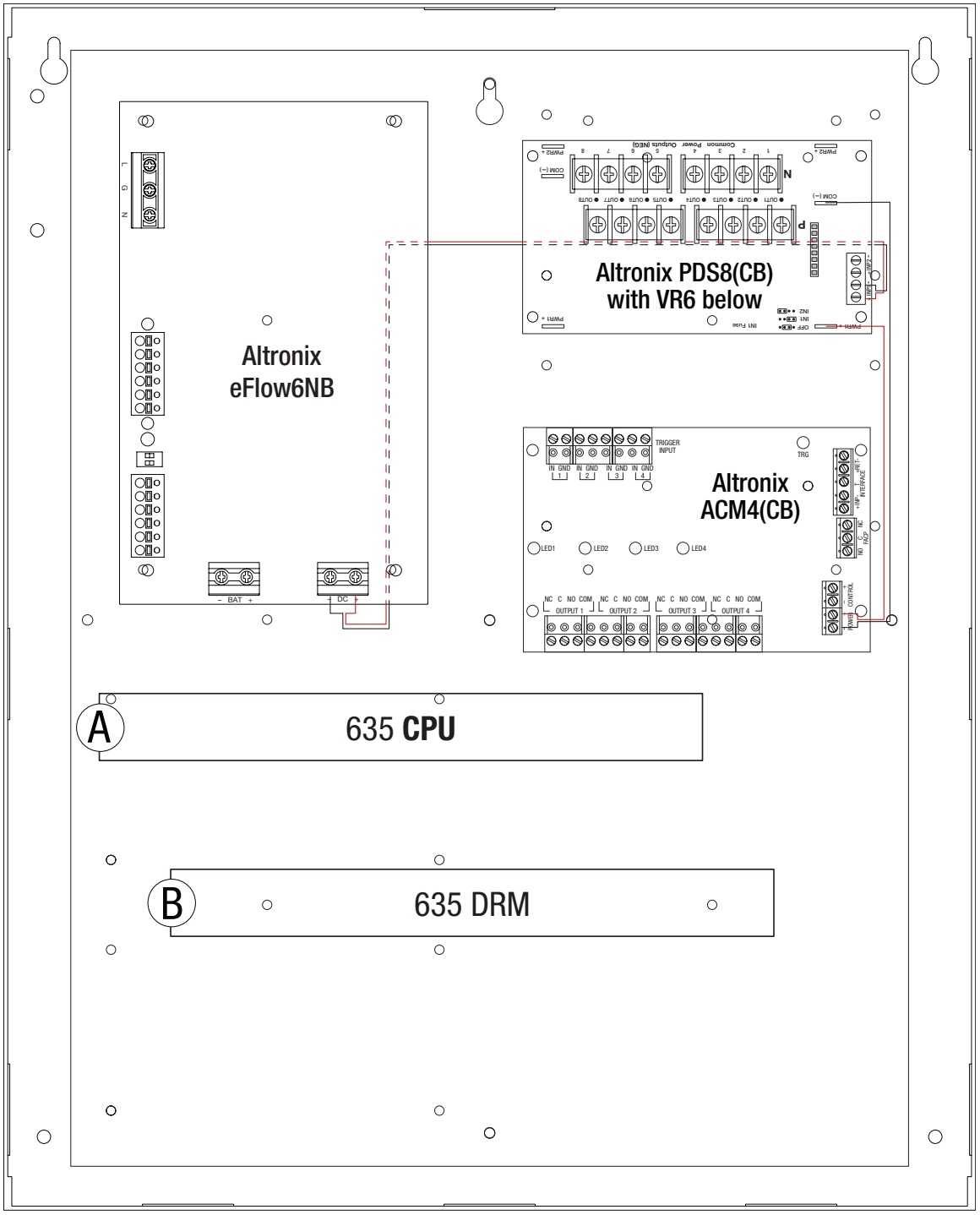
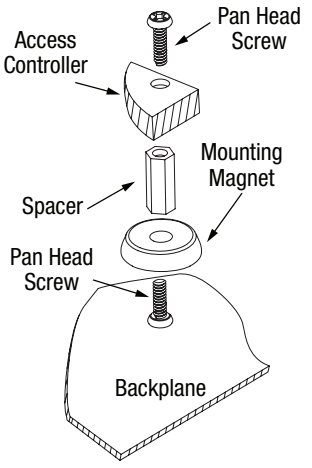


Fig. 2a



T2GXK7F8S and T2GXK7F8S (D): Configuration of Galaxy Modules:

1. Fasten mounting magnets (provided) to Galaxy modules with screws and spacers (provided) using the controllers' mounting holes *(Fig. 3, pg. 4)*.
2. Attach mounting magnets to TCV2 in the approximate position as shown below *(Fig. 3a, pg. 4)*.
3. Fasten TCV2 backplane to Trove2 enclosure utilizing lock nuts (provided by Altronix).

Galaxy Access Controller Position Chart for the Following Models:

Galaxy	Pem Mounting
635 CPU	(A)
635 DRM	(B)

Fig. 3

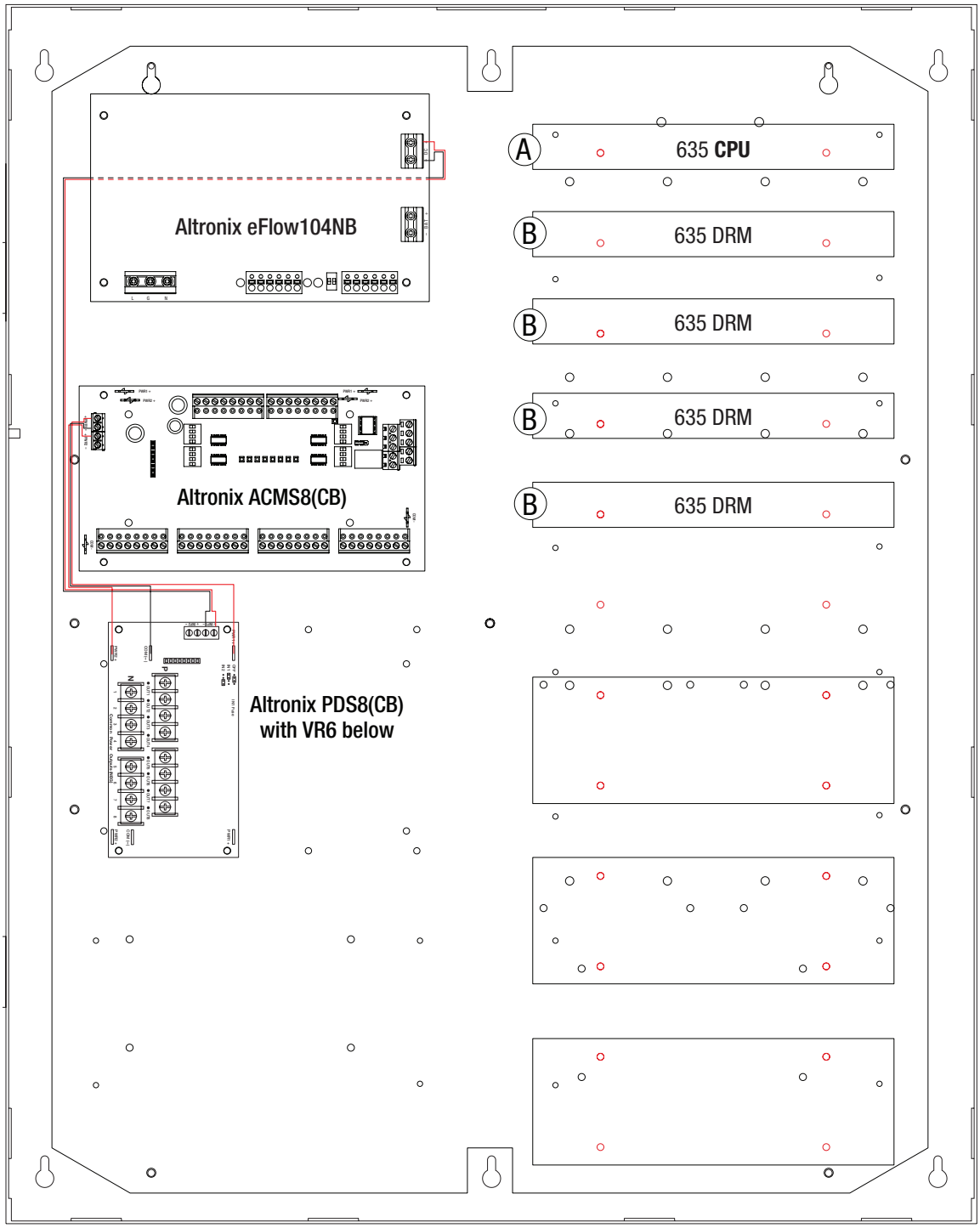
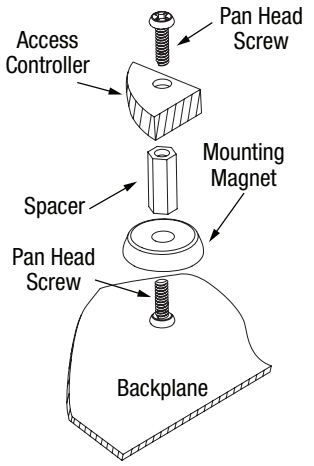


Fig. 3a



T3GXK77F16S and T3GXK77F16S(D): Configuration of Galaxy Modules:

1. Fasten mounting magnets (provided) to Galaxy modules with screws and spacers (provided) using the controllers' mounting holes *(Fig. 4, pg. 5)*.
2. Attach mounting magnets to TSS3 in the approximate position as shown below *(Fig. 4a, pg. 5)*.
3. Fasten TSS3 backplane to Trove3 enclosure utilizing lock nuts (provided by Altronix).

Galaxy Access Controller Position Chart for the Following Models:

Galaxy	Pem Mounting
635 CPU	(A)
635 DSI	(B)
635 DRM	(C)

Fig. 4

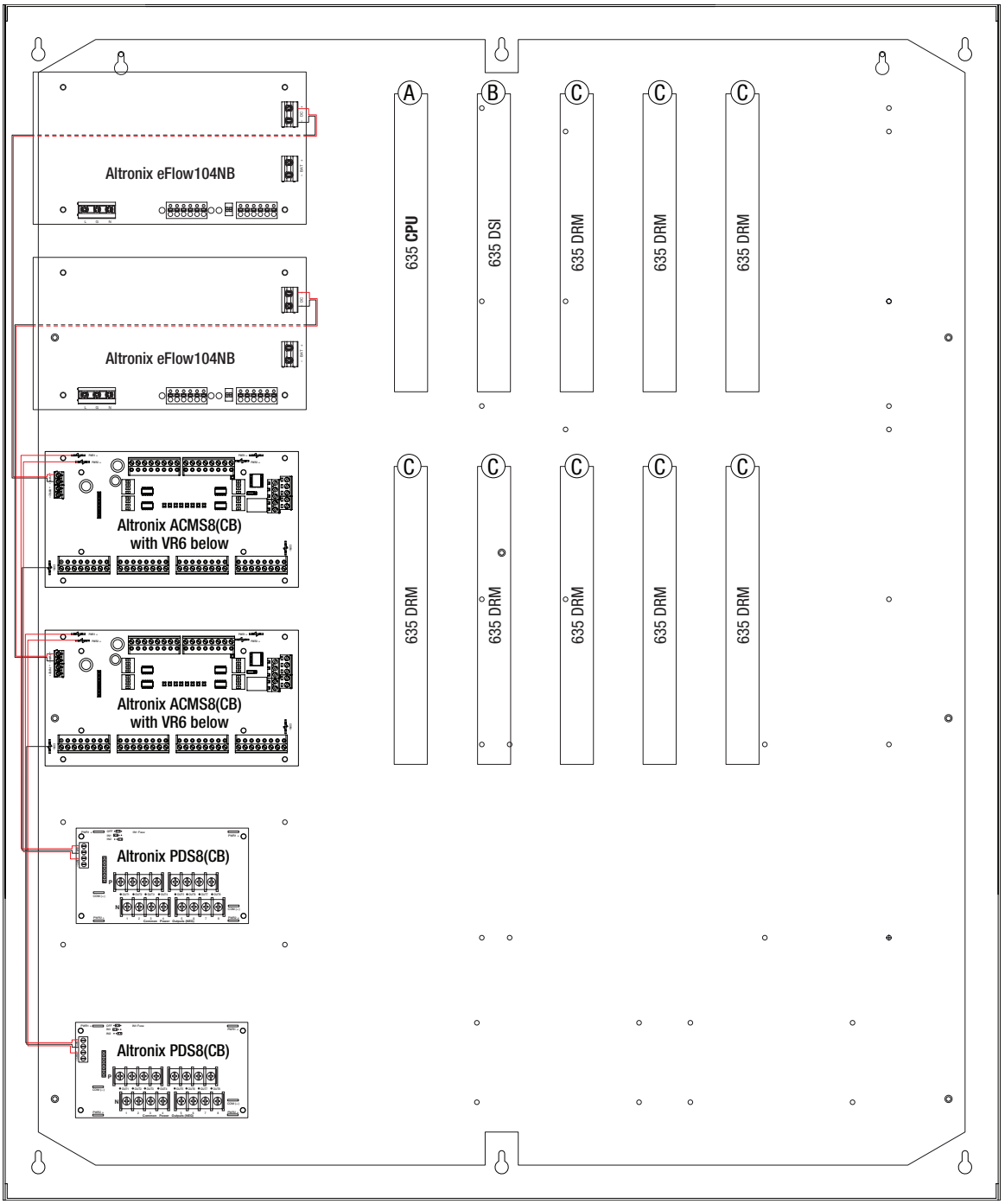
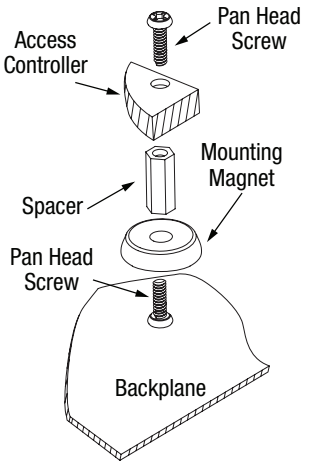


Fig. 4a



T3GXK775F24S and T3GXK775F24S(D): Configuration of Galaxy Modules:

1. Fasten mounting magnets (provided) to Galaxy modules with screws and spacers (provided) using the controllers' mounting holes *(Fig. 5, pg. 6)*.
2. Attach mounting magnets to TSS3 in the approximate position as shown below *(Fig. 5a, pg. 6)*.
3. Fasten TSS3 backplane to Trove3 enclosure utilizing lock nuts (provided by Altronix).

Galaxy Access Controller Position Chart for the Following Models:

Galaxy	Pem Mounting
635 CPU	(A)
635 DSI	(B)
635 DRM	(C)

Fig. 5

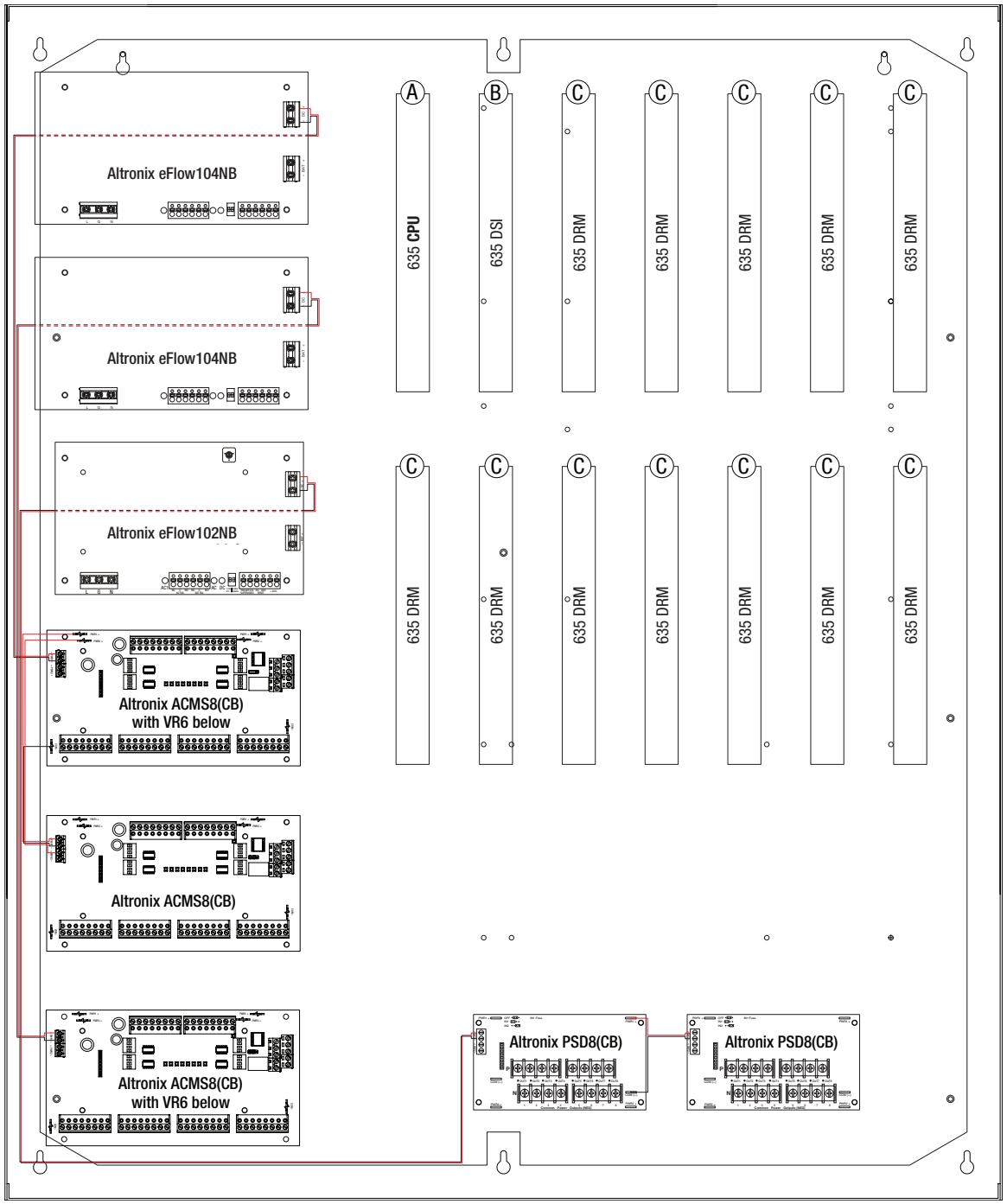
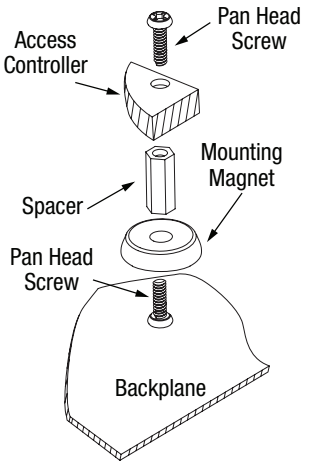
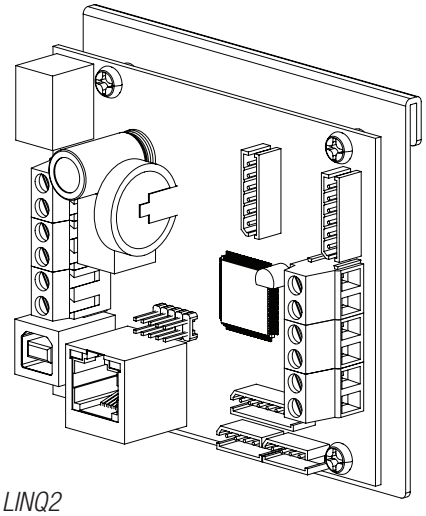


Fig. 5a



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



LINQ2

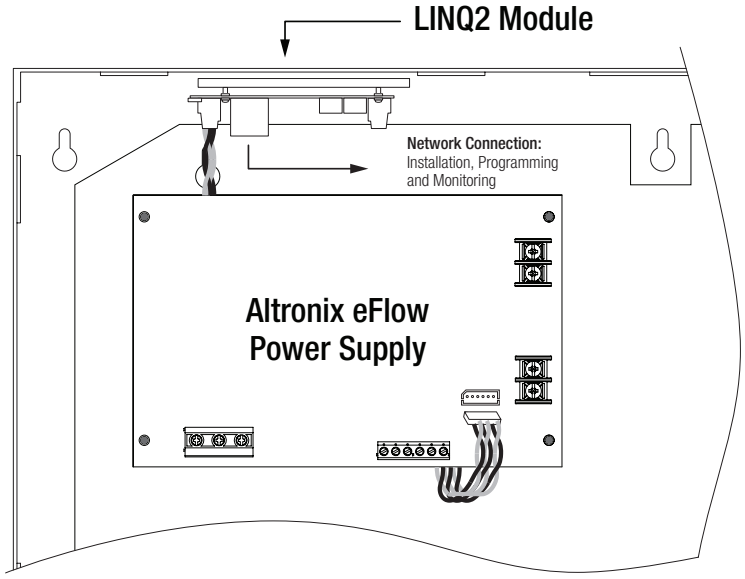
LINQ2 - Network Communication Module

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

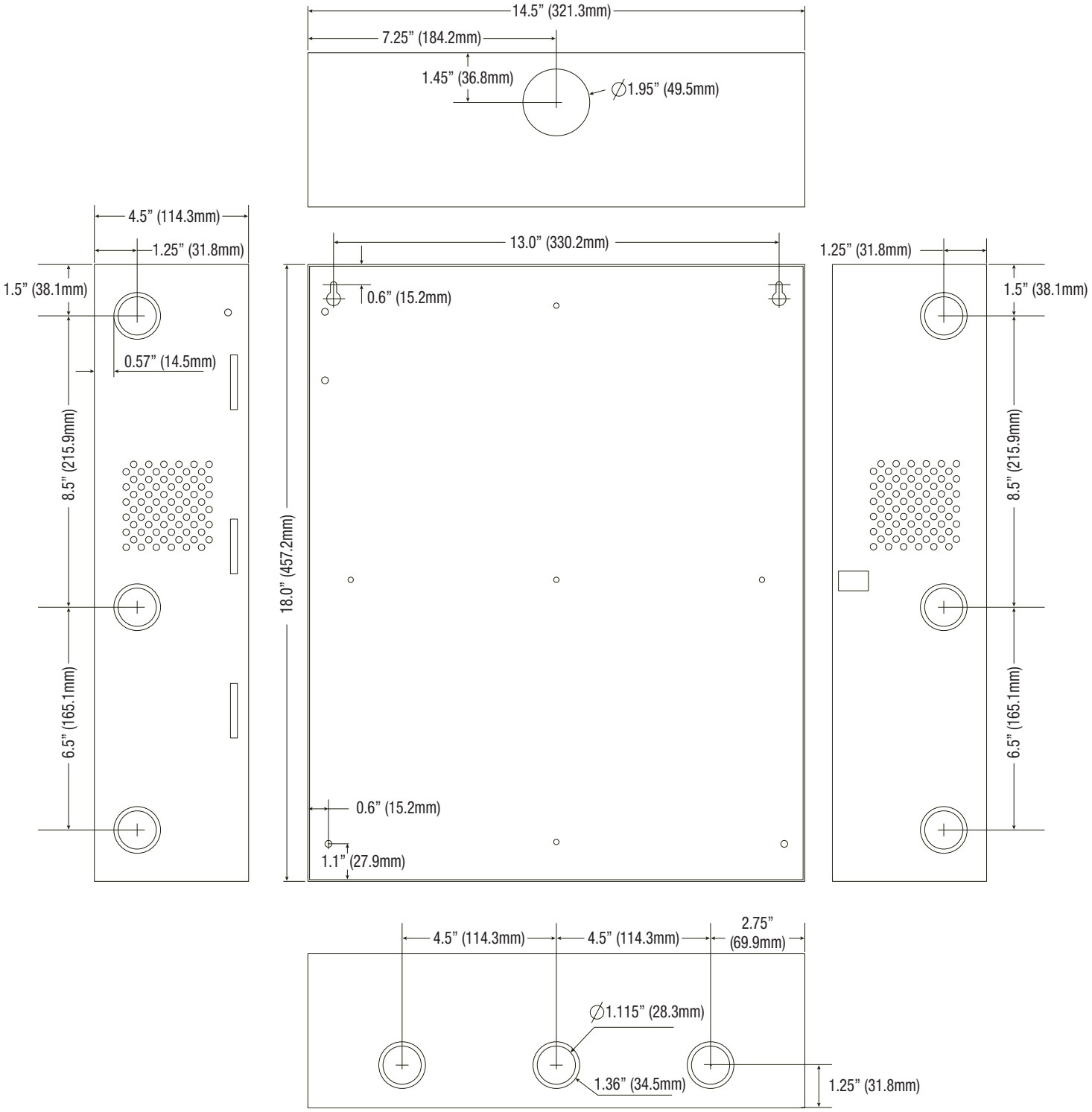


Notes:

Notes:

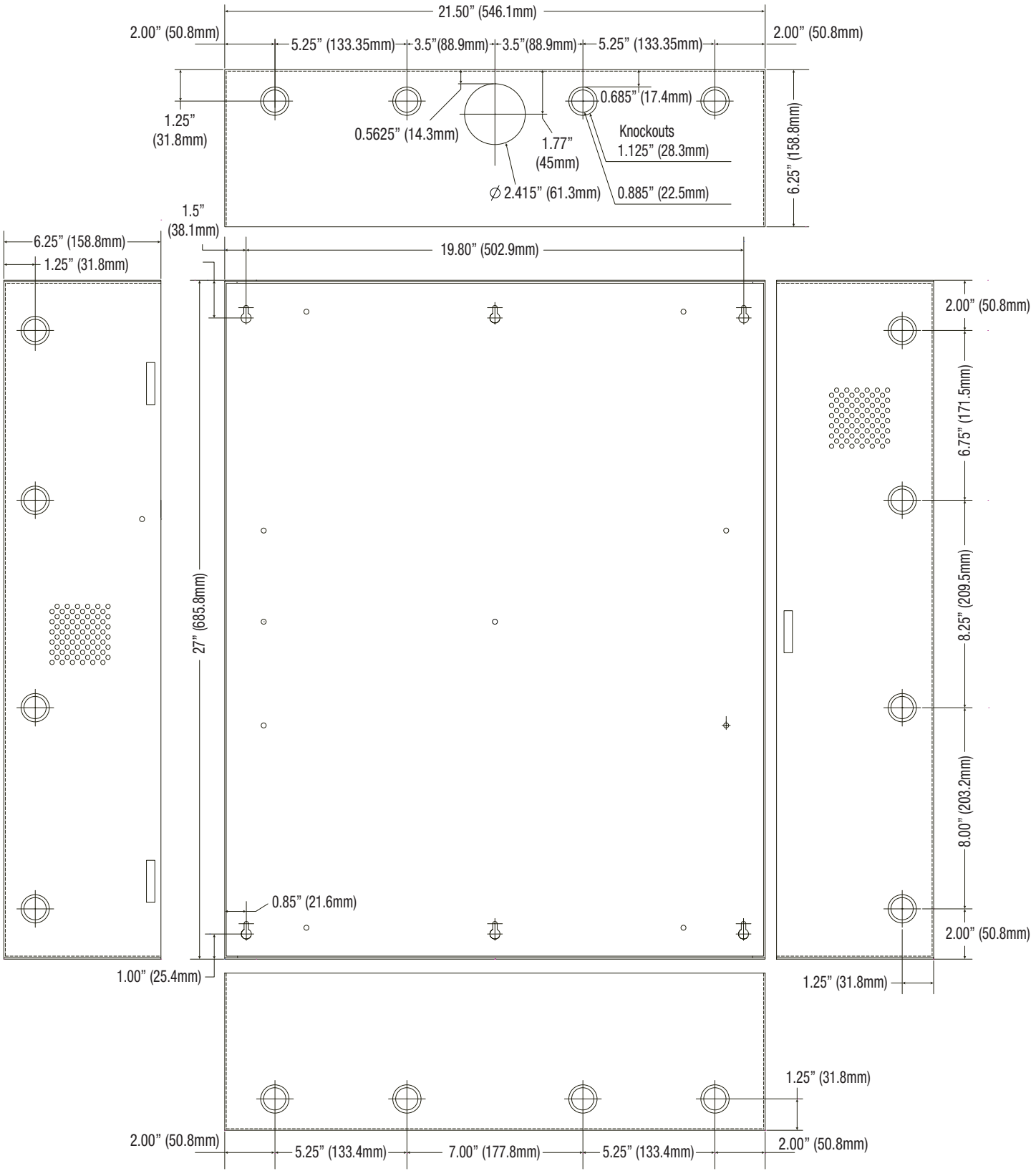
T1GXK3F4 and T1GXK3F4D (Trove1) Enclosure Dimensions (H x W x D approximate)**:**

18” x 14.5” x 4.625” (457mm x 368mm x 118mm)



T2GXK7F8S and T2GXK7F8SD (Trove2) Enclosure Dimensions (H x W x D approximate)**:**

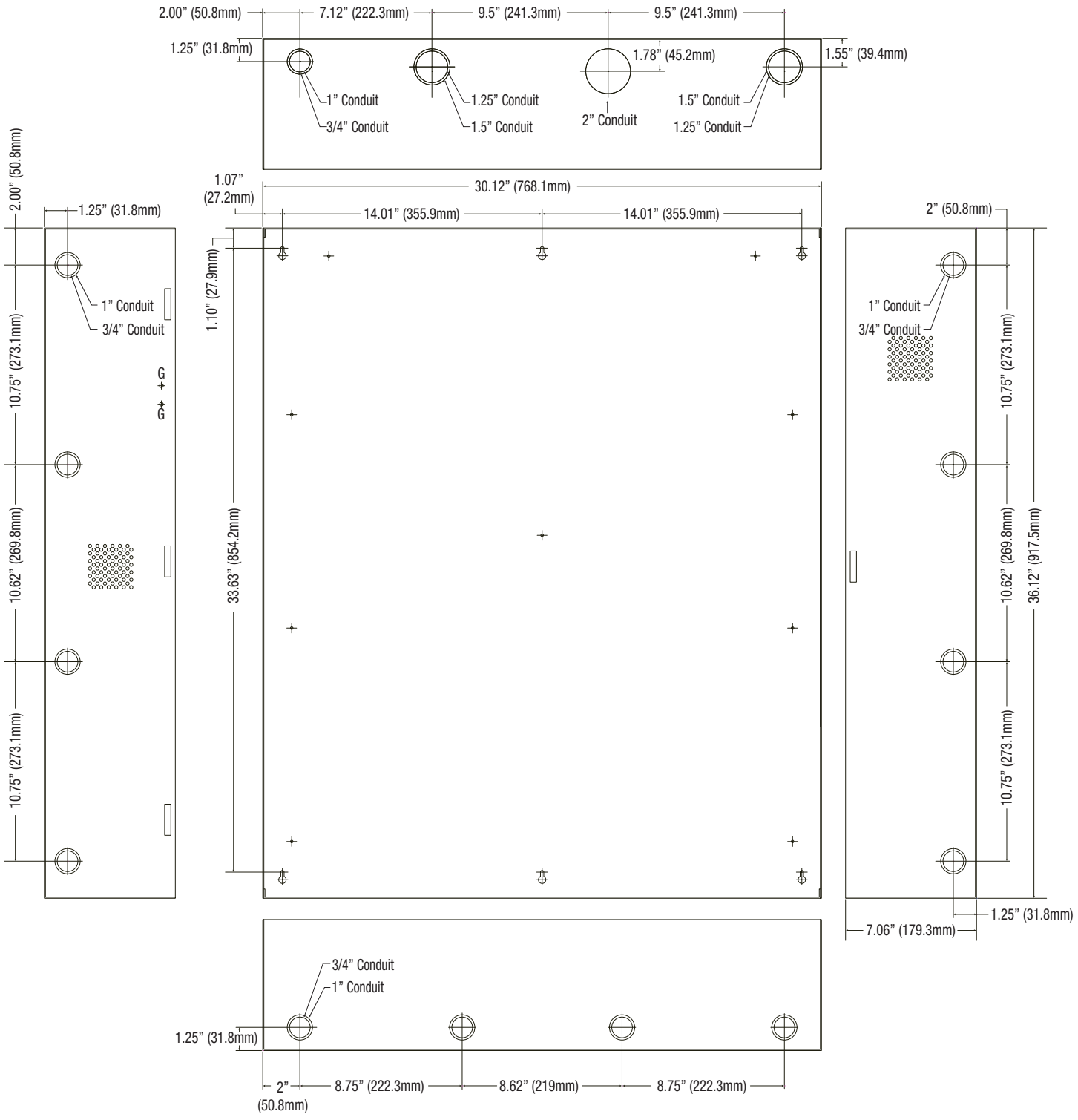
27.25” x 21.75” x 6.5” (692.15mm x 546.1mm x 165.1mm)



T3GXK77F16S, T3GXK77F16SD, T3GXK775F24S and T3GXK775F24SD (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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