TROVE™

Access & Power Integration

Trove2AG2

- Trove2 enclosure with TAM2 Altronix/AMAG backplane (accommodates M4000)

Trove2AM2

- Trove2 enclosure with TAM2 Altronix/AMAG backplane (accommodates M2150)

TAM2

- Altronix/AMAG M2150 / M4000 backplane only

Trove3AM3

- Trove3 enclosure with TAM3 Altronix/AMAG M2150 / M4000 backplane

TAM3

- Altronix/AMAG M2150 / M4000 backplane only

Installation Guide

SECURITY UL LISTED SECURITY cUL LISTED SIGNALING UL LISTED CE

Altronix®

More than just power.™

Rev. TAMAG011425

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____

Overview:

Altronix Trove2AM2 and Trove3AM3 accommodates AMAG boards with or without Altronix power supplies and sub-assemblies for access systems.

Agency Listings:

- UL 294 - 6th edition: Line Security I, Destructive Attack I, Endurance IV, Stand-by Power II*. * Stand-by Power Level I if no battery is supplied.
- This Class B digital apparatus complies with Canadian ICES-003.
  Cet appareil numérique de la classe B est conforme á la norme NMB-003 du Canada.
- CE European Conformity.

Specifications:

Trove2AG2, Trove2AM2 - Trove2 enclosure with TAM2 Altronix/AMAG M2150 or M4000 backplane

Trove2AM2 accommodates a combination of the following:

- **Altronix Modules:**
  - Up to two (2) eFlow4NB, eFlow6NB, eFlow102NB, eFlow104NB or POE201, POE240, POE360.
  - Up to two (2) LINQ8ACM(CB), LINQ8PD(CB), ACM8(CB), ACMS8(CB), ACMS12(CB), ACM4(CB), MOM5, PD4UL(CB), PD8UL(CB), PDS8(CB), PDS16(CB), VR6 or VR10.
- **AMAG Modules:**
  - One (1) M2150-2DBC, M2150-4DBC or M2150-8DBC modules.
  - One (1) M2150-2DC, M2150-4DC or M2150-AC244 modules.
  - Up to three (3) M4000 modules.
- Includes: tamper switch, cam lock, lock nuts and mounting hardware.
- 16 Gauge enclosure with ample knockouts for convenient access.
- Enclosure Dimensions (H x W x D): 27.25" x 21.75" x 6.5" (692.2mm x 552.5mm x 165.1mm).

TAM2 - Altronix/AMAG M2150 / M4000 backplane

- 16 Gauge backplane.
- Includes mounting hardware.
- Dimensions (H x W x D): 25.375" x 19.375" x 0.3125" (644.6mm x 492.1mm x 7.9mm).

Trove3AM3 - Trove3 enclosure with TAM3 Altronix/AMAG M2150 / M4000 backplane

Trove3AM3 accommodates a combination of the following:

- **Altronix Modules:**
  - Up to two (2) eFlow4NB, eFlow6NB, eFlow102NB, eFlow104NB or POE201, POE240, POE360.
  - Up to two (2) LINQ8ACM(CB), ACM8(CB), ACMS8(CB), ACMS12(CB).
  - Up to four LINQ8PD(CB),(4) ACM4(CB), MOM5, PD4UL(CB), PD8UL(CB), PDS8(CB), PDS16(CB), VR6 or VR10.
- **AMAG Modules:**
  - Up to two (2) M2150-4DC or M2150-AC244, M2150-DBU, M2150-4DBC or M2150-8DBC modules.
  - Up to four (4) M4000 modules.
- Includes: tamper switch, cam lock, lock nuts and mounting hardware.
- 16 Gauge enclosure with ample knockouts for convenient access.
- Enclosure Dimensions (H x W x D): 36.12" x 30.12" x 7.06" (917.5mm x 768.1mm x 179.3mm).

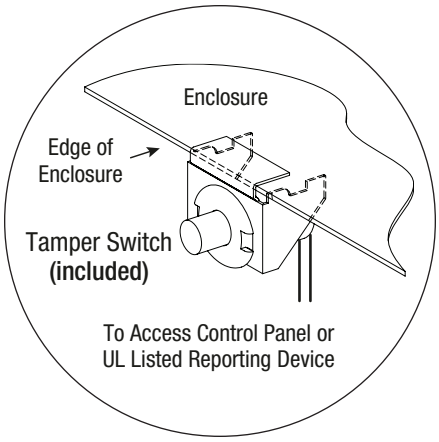
TAM3 - Altronix/AMAG M2150 / M4000 backplane

- 16 Gauge backplane.
- Includes mounting hardware.
- Dimensions (H x W x D): 34.0" x 28.0" x 0.3125" (863.6mm x 711.2mm x 7.9mm).

Installation Instructions for Trove2 / Trove3:

1. Remove backplane from enclosure prior to mounting (do not discard hardware).
   If your application requires a raised backplane, re-mount it using metal spacers and screws (provided).
2. Mark and predrill holes in the wall to line up with the top keyholes in the enclosure. Install the upper fasteners and screws in the wall. with the screw heads protruding. Place the enclosure's upper keyholes over the screws; level and secure. Mark the position of the lower holes. Remove the enclosure. Drill the lower holes and install the fasteners. Place the enclosure's upper keyholes over the upper screws. Install the lower screws and make sure to tighten all screws *(Enclosure Dimensions, pg. 10, 12)*.
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. 3)*.
   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 Altronix/AMAG boards to backplane, refer to *pages 3-5.*

Fig. 1



Hardware:

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

TAM2: Configuration of Altronix Power Supply and/or Sub-Assembly Boards and AMAG M2150 Boards

1. Fasten spacers (provided) to pems that match the hole pattern for Altronix Power Supply/Chargers or Altronix Sub-Assembly boards *(Fig. 2, 2a, pg. 3)*. Fasten metal spacers in the correct locations to provide proper grounding, see below *(Fig. 2, pg. 3)*.
2. Mount boards to spacers utilizing 5/16" pan head screws (provided) *(Fig. 2, pg. 3)*.
3. Align the AMAG boards on the backplane to match the boards' mounting holes with pems provided.
4. Fasten spacers (provided) to pems that match the hole pattern for AMAG M2150 boards.
5. Mount AMAG boards to spacers utilizing 5/16" pan head screws (provided) *(Fig. 2, pg. 3)*.
   Note: AMAG M2150 boards have specific markings. Please orient boards in the appropriate position according to the *Fig. 2* below.
6. Fasten backplane to Trove2 enclosure utilizing lock nuts (provided).

Boards	Pem Mounting
eFlow4NB, eFlow6NB, eFlow102NB, eFlow104NB, POE201, POE240, POE360, LINQ8ACM(CB), ACM8(CB), ACMS8(CB), ACMS12(CB)	A
LINQ8PD(CB), ACM4(CB), MOM5, PD4UL(CB), PD8UL(CB), PDS8(CB), PDS16(CB), VR6, VR10	B
AMAG M2150-AC24/4, M2150-4DC Boards	C
AMAG M2150-2DC Board	D
AMAG M2150-2DBC Board	E
AMAG M2150-4DBC, M2150-8DBC Boards	F

Fig. 2

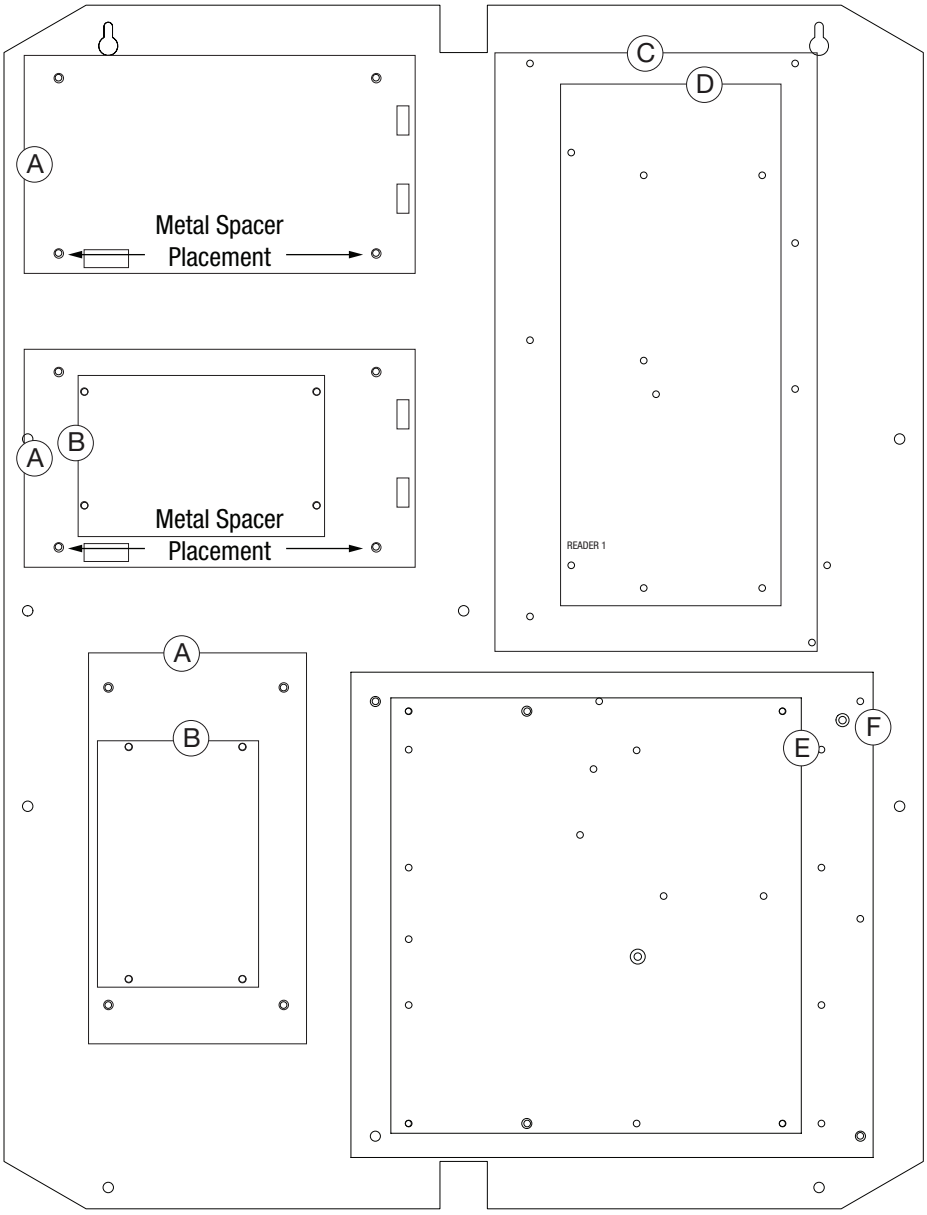
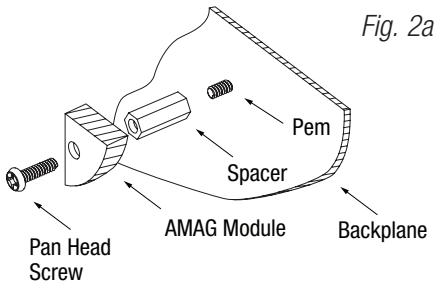


Fig. 2a



TAM2: Configuration of Altronix Power Supply and/or Sub-Assembly Boards and AMAG M4000 Boards

1. Fasten spacers (provided) to pems that match the hole pattern for Altronix power supply/chargers and sub-assemblies *(Fig. 3, pg. 4)*.
2. Fasten metal spacers in the correct locations to provide proper grounding, see below *(Fig. 3, pg. 4)*.
3. Push 5/16" pan head screws (provided) from the back of the backplane through the holes that match the pattern for AMAG M4000 modules. Attach spacers to the screws *(Fig. 3a, pg. 4)*.
4. Mount boards to spacers utilizing 5/16" pan head screws (provided) *(Fig. 3, 3b, pg. 4)*.
5. Fasten TAM2 backplane to Trove2 enclosure using metal spacers and screws (provided).

Power Supply, Sub-Assembly and Access Controller Position Chart for the Following Models:

Boards	Pem Mounting
eFlow4NB, eFlow6NB, eFlow102NB, eFlow104NB, POE201, POE240, POE360, LINQ8ACM(CB), ACM8(CB), ACMS8(CB), ACMS12(CB)	(A)
LINQ8PD(CB),(4) ACM4(CB), MOM5, PD4UL(CB), PD8UL(CB), PDS8(CB), PDS16(CB), VR6, VR10	(B)
AMAG M4000 Boards *(Fig. 3b, pg. 4)*	(C)

Fig. 3

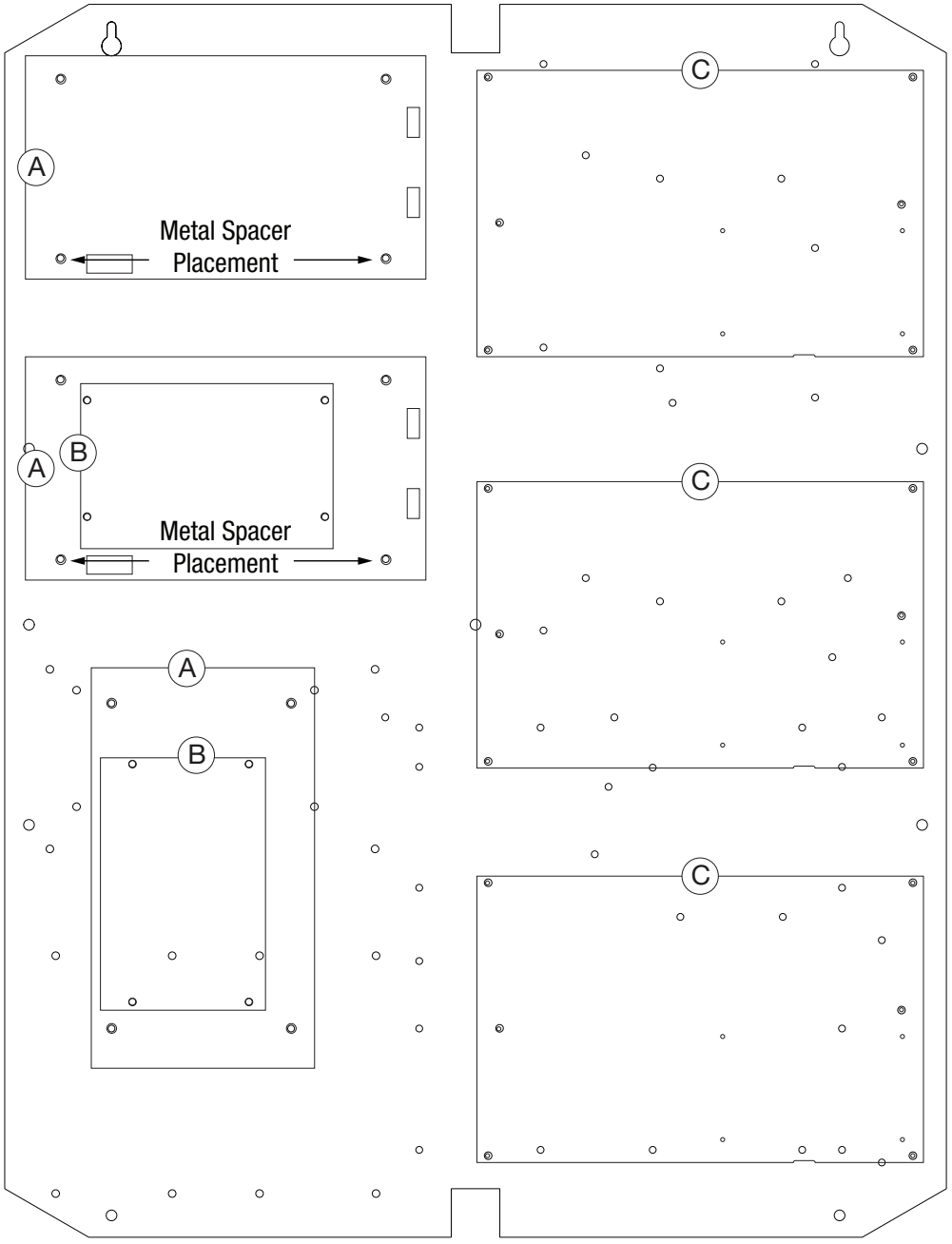


Fig. 3a

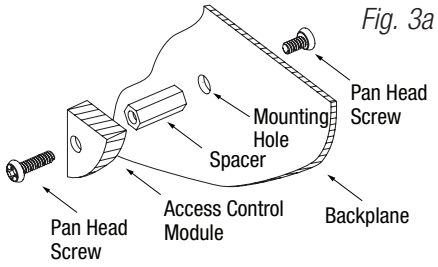
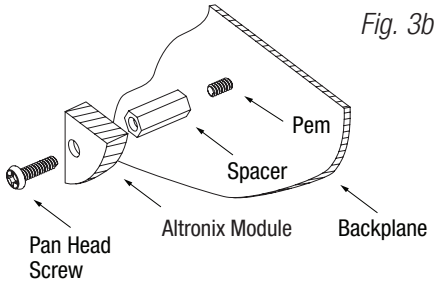


Fig. 3b



TAM3: Configuration of Altronix Power Supply and/or Sub-Assembly Boards and AMAG M2150 / M4000 Boards

1. Fasten spacers (provided) to pems that match the hole pattern for Altronix power supply/chargers and sub-assemblies *(Fig. 4, pg. 6)*.
   Fasten metal spacers in the correct locations to provide proper grounding, see below *(Fig. 4, pg. 6)*.
   Fasten spacers (provided) to pems that match the hole pattern for AMAG boards.
2. Mount boards to spacers utilizing 5/16" pan head screws (provided) *(Fig. 4, 4a, pg. 6)*.
3. Fasten TAM3 backplane to Trove3 enclosure utilizing lock nuts (provided).

Power Supply, Sub-Assembly and Access Controller Position Chart for the Following Models:

Boards	Pem Mounting
eFlow4NB, eFlow6NB, eFlow102NB, eFlow104NB, POE201, POE240, POE360, LINQ8ACM(CB), ACM8(CB), ACMS8(CB), ACMS12(CB)	Ⓐ
LINQ8PD(CB),(4) ACM4(CB), MOM5, PD4UL(CB), PD8UL(CB), PDS8(CB), PDS16(CB), VR6, VR10	Ⓑ
AMAG M2150-DBU	Ⓒ
AMAG M2150-AC24/4, M2150-4DC	Ⓓ
AMAG M4000	Ⓔ
AMAG M2150-4DBC, M2150-8DC, M2150-8DBC	Ⓕ

Fig. 4

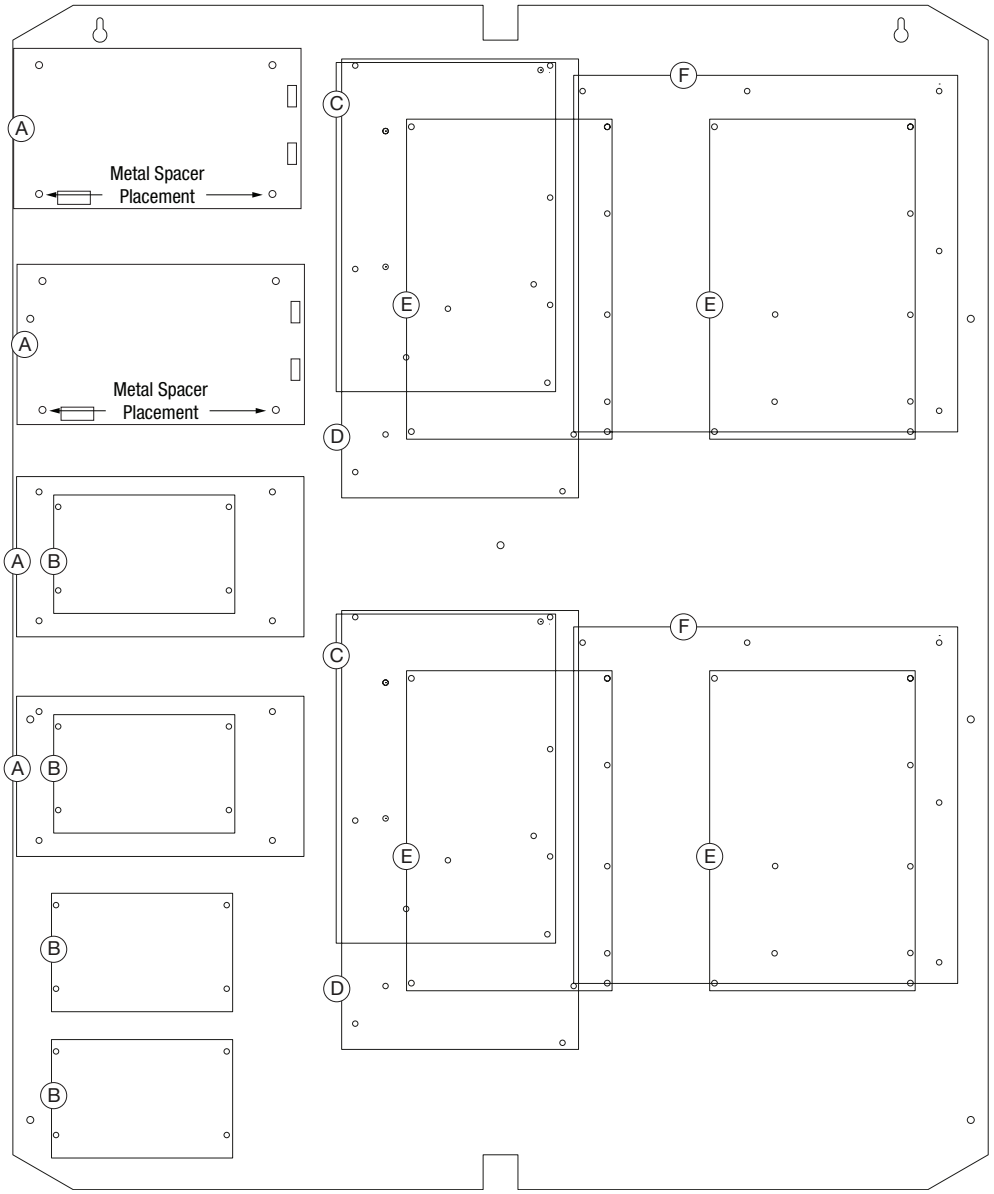
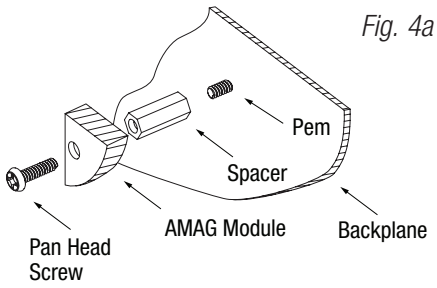
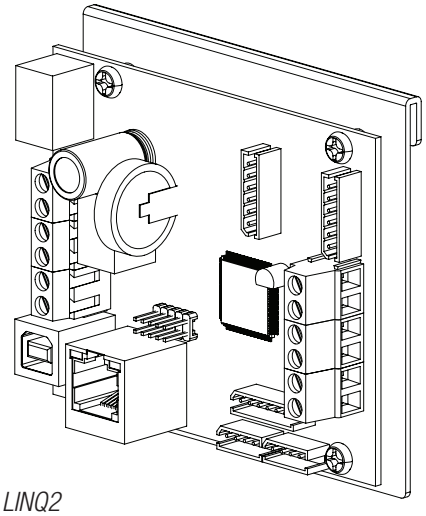


Fig. 4a



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



LINQ2

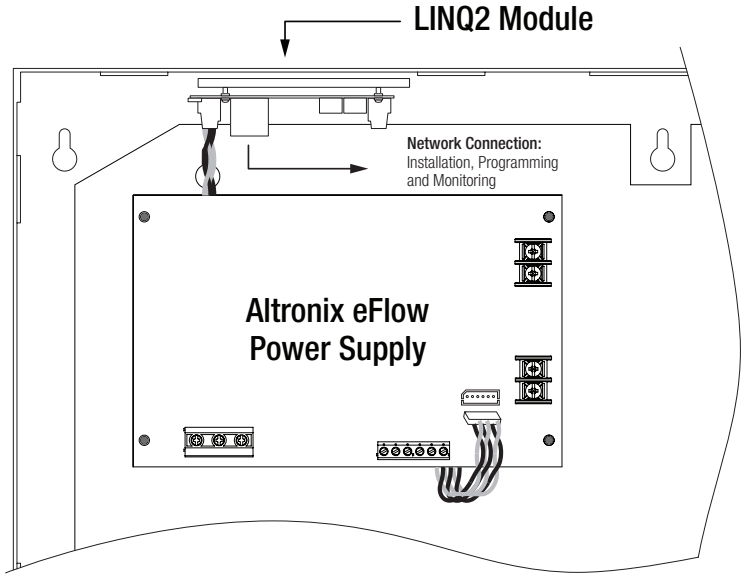
LINQ2 - Network Communication Module

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

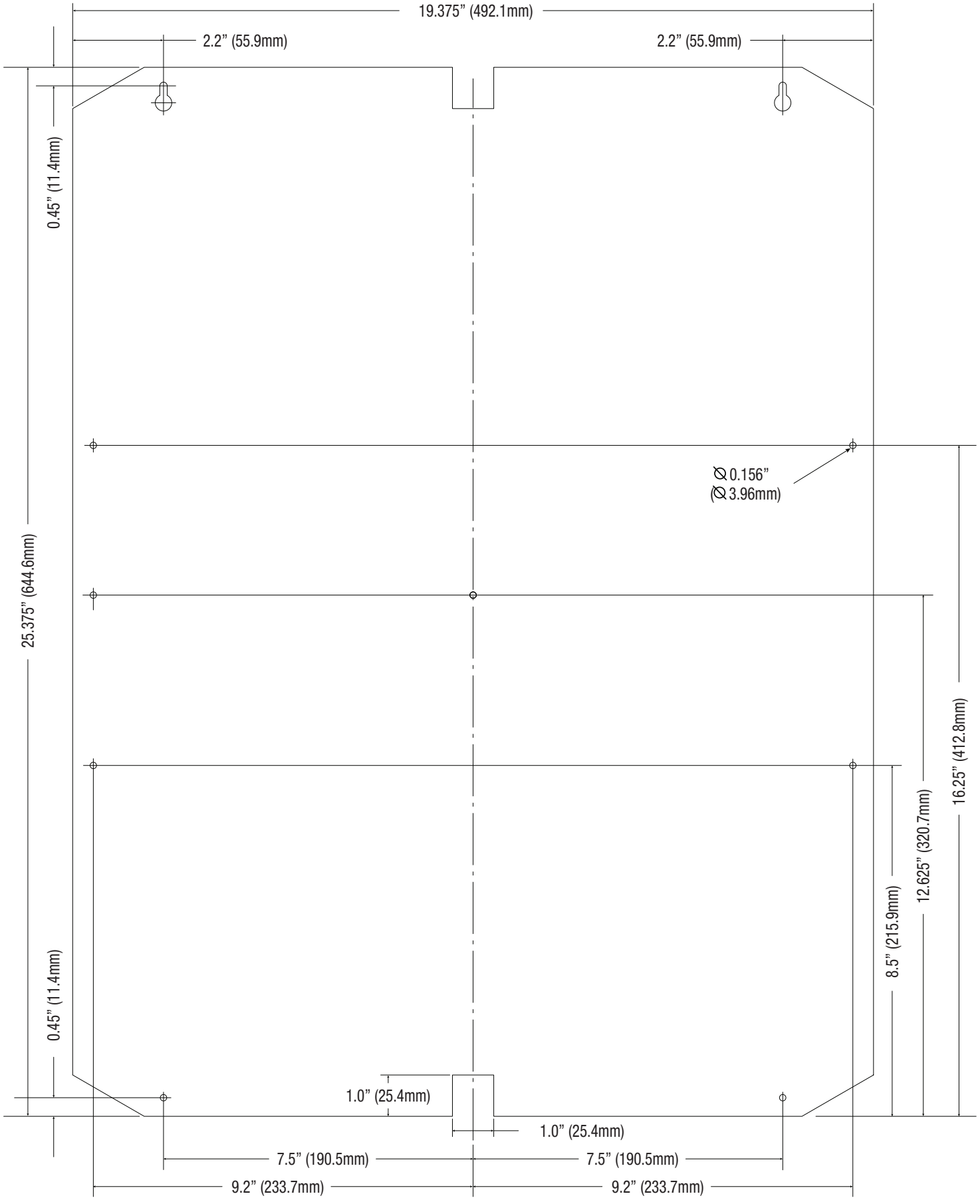


Notes:

Notes:

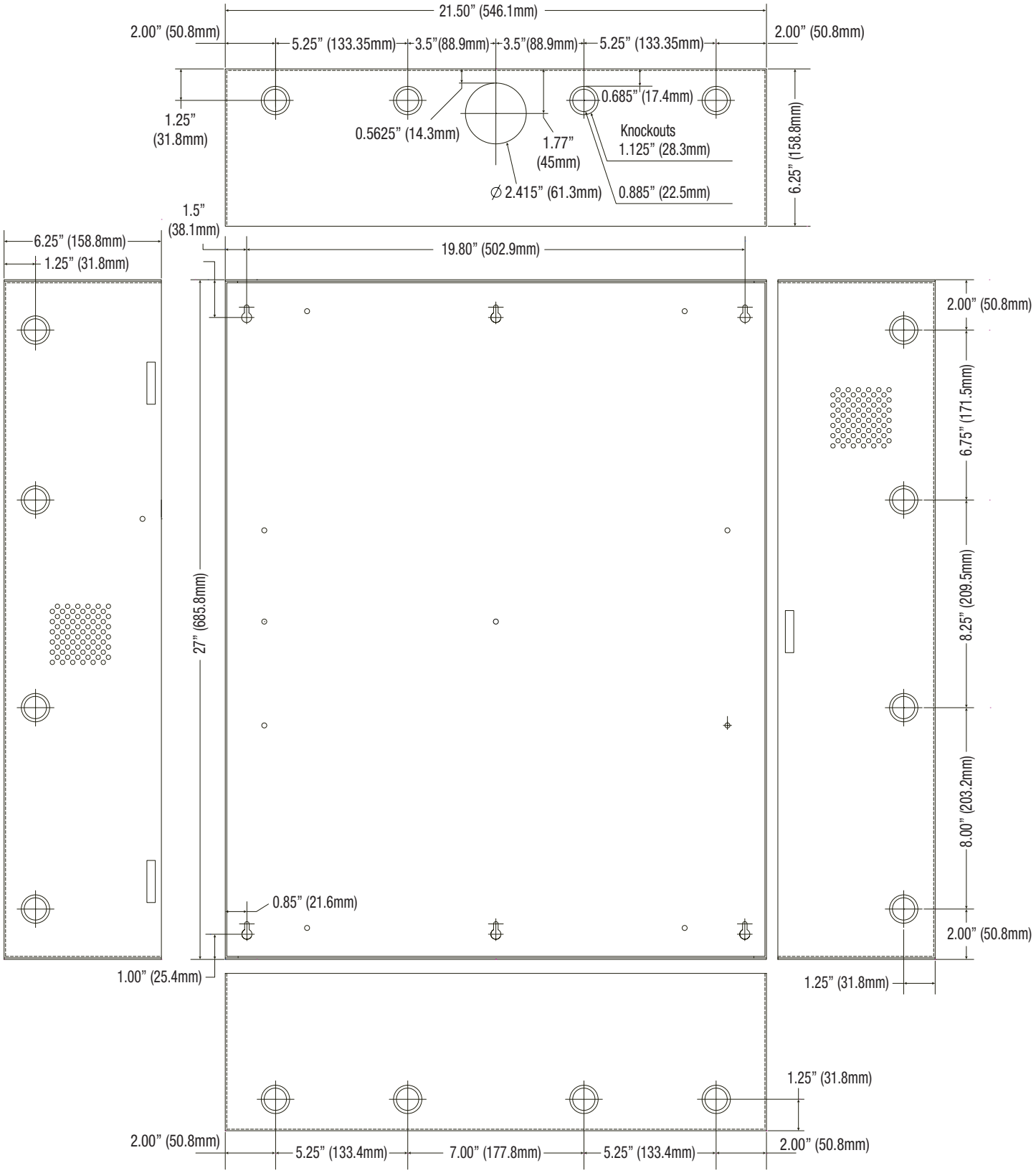
TAM2 Dimensions

25.375” x 19.375” x 0.3125” (644.5mm x 482.6mm x 7.9mm).



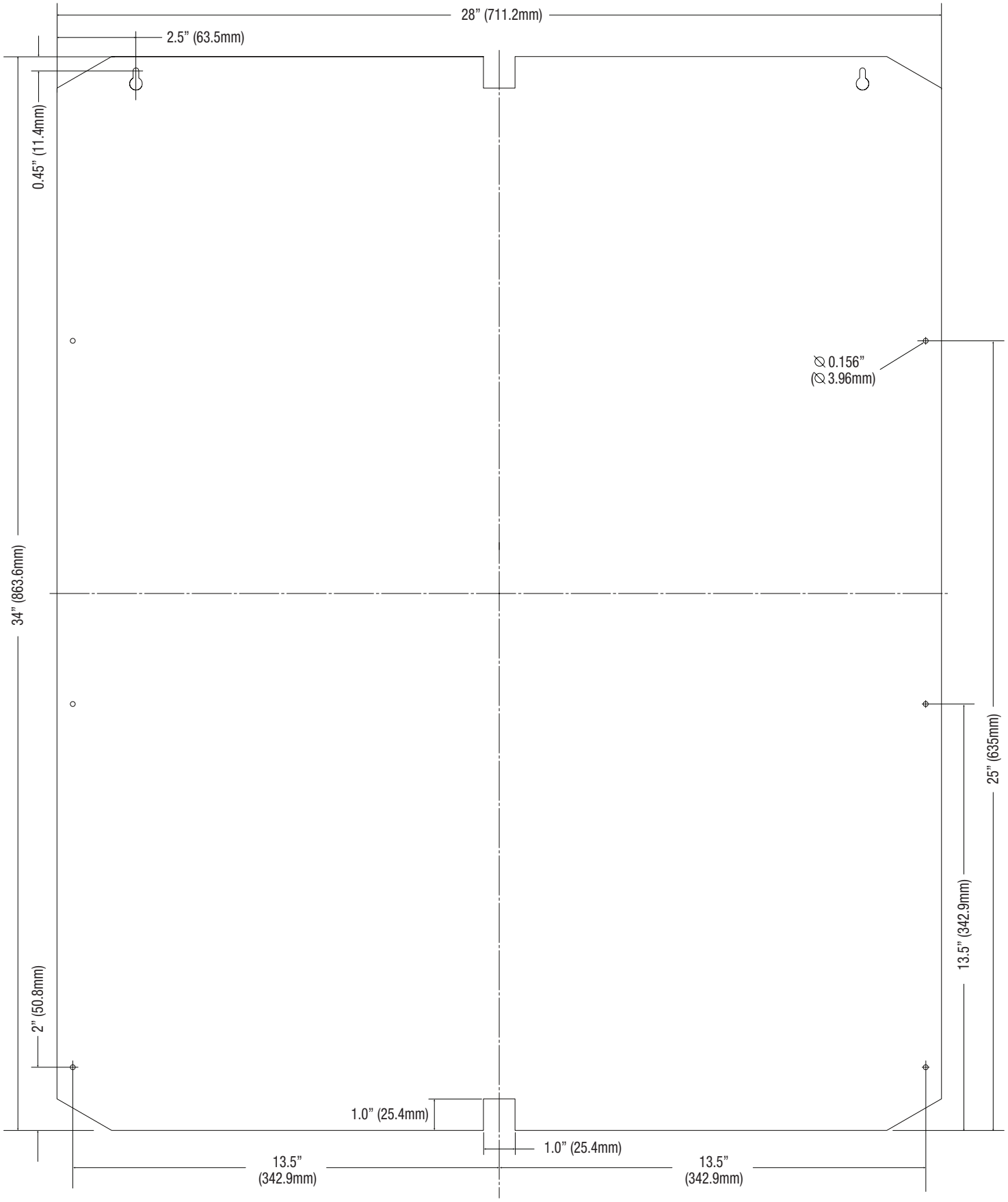
Trove2 Enclosure Dimensions (H x W x D approximate)**:**

27.25” x 21.75” x 6.5” (692.15mm x 552.5mm x 165.1mm)



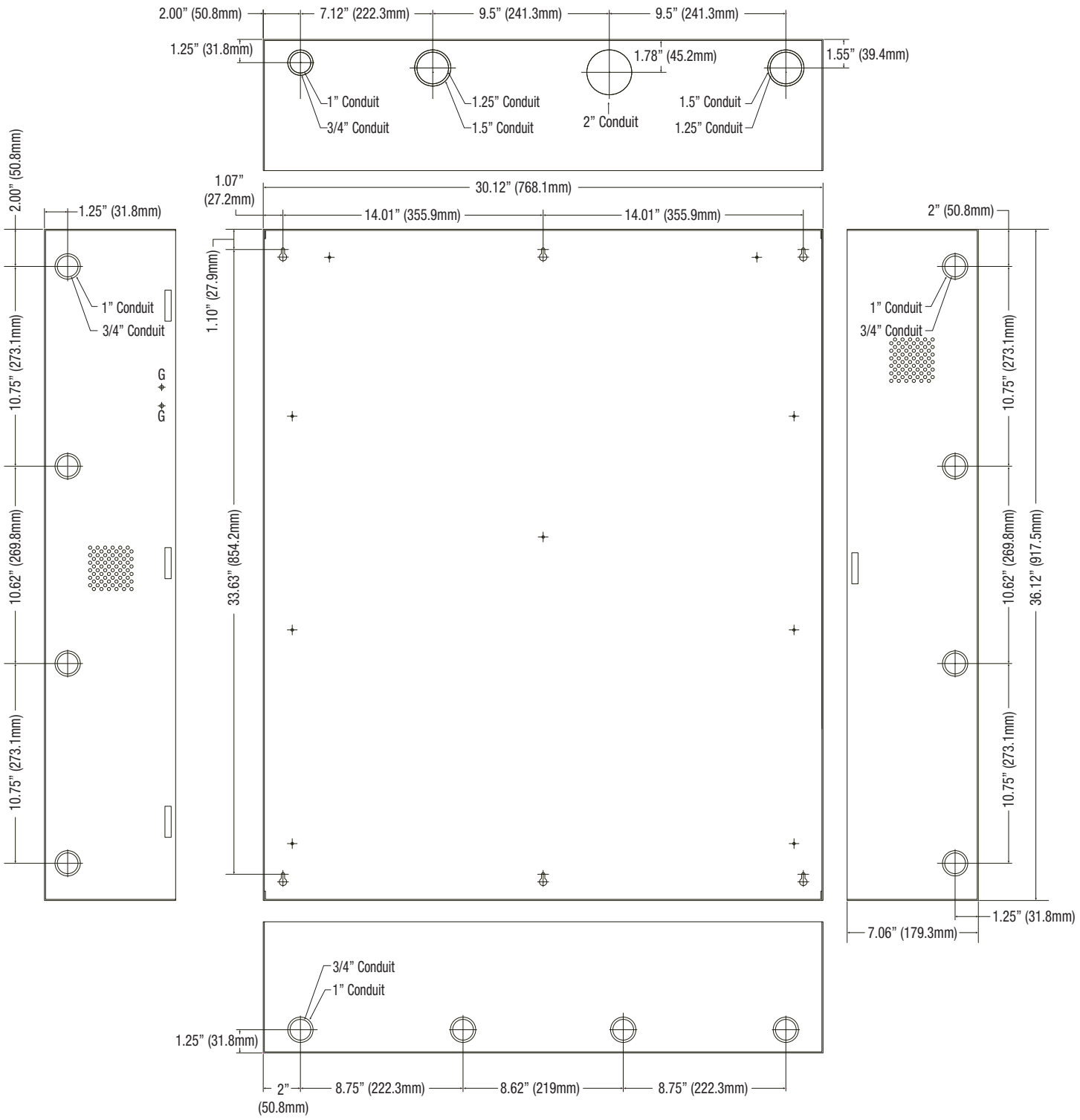
TAM3 Dimensions

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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