TROVE™

Access & Power Integration Solutions

Installation Guide for models:

T2MK3F4
Fully assembled kit includes:
- *Trove2 enclosure with TM2 backplane*
- *(1) eFlow6NB - Power Supply/Charger*
- *(1) ACM4 - Fused Access Power Controller*
- *(1) VR6 - Voltage Regulator*
- *(1) PDS8 - Dual Input Power Distribution Module*

T2MK3F4Q
Fully assembled kit includes:
- *Trove2 enclosure with TM2 backplane*
- *(1) eFlow6NB - Power Supply/Charger*
- *(1) LINQ2 - Network Communications Module*
- *(1) ACM4 - Fused Access Power Controller*
- *(1) VR6 - Voltage Regulator*
- *(1) PDS8 - Dual Input Power Distribution Module*

T2MK3F8
Fully assembled kit includes:
- *Trove2 enclosure with TM2 backplane*
- *(1) eFlow6NB - Power Supply/Charger*
- *(1) ACM8 - Fused Access Power Controller*
- *(1) VR6 - Voltage Regulator*
- *(1) PDS8 - Dual Input Power Distribution Module*

T2MK3F8Q
Fully assembled kit includes:
- *Trove2 enclosure with TM2 backplane*
- *(1) eFlow6NB - Power Supply/Charger*
- *(1) LINQ2 - Network Communications Module*
- *(1) ACM8 - Fused Access Power Controller*
- *(1) VR6 - Voltage Regulator*
- *(1) PDS8 - Dual Input Power Distribution Module*

T2MK7F8
Fully assembled kit includes:
- *Trove2 enclosure with TM2 backplane*
- *(1) eFlow104NB - Power Supply/Charger*
- *(1) ACM8 - Fused Access Power Controller*
- *(1) VR6 - Voltage Regulator*
- *(1) PDS8 - Dual Input Power Distribution Module*

T2MK7F8Q
Fully assembled kit includes:
- *Trove2 enclosure with TM2 backplane*
- *(1) eFlow104NB - Power Supply/Charger*
- *(1) LINQ2 - Network Communications Module*
- *(1) ACM8 - Fused Access Power Controller*
- *(1) VR6 - Voltage Regulator*
- *(1) PDS8 - Dual Input Power Distribution Module*

T2MK75F16
Fully assembled kit includes:
- *Trove2 enclosure with TM2 backplane and TMV2 door backplane*
- *(1) eFlow104NB and (1) eFlow102NB - Power Supply/Chargers*
- *(2) ACM8 - Fused Access Power Controller*
- *(1) VR6 - Voltage Regulator*
- *(1) PD8UL - Power Distribution Module*

T2MK75F16Q
Fully assembled kit includes:
- *Trove2 enclosure with TM2 backplane and TMV2 door backplane*
- *(1) eFlow104NB and (1) eFlow102NB - Power Supply/Chargers*
- *(1) LINQ2 - Network Communications Module*
- *(2) ACM8 - Fused Access Power Controller*
- *(1) VR6 - Voltage Regulator*
- *(1) PD8UL - Power Distribution Module*

T2MK77F16
Fully assembled kit includes:
- *Trove2 enclosure with TM2 backplane and TMV2 door backplane*
- *(2) eFlow104NB - Power Supply/Charger*
- *(2) ACM8 - Fused Access Power Controller*
- *(1) VR6 - Voltage Regulator*
- *(1) PDS8 - Dual Input Power Distribution Module*

T2MK77F16Q
Fully assembled kit includes:
- *Trove2 enclosure with TM2 backplane and TMV2 door backplane*
- *(2) eFlow104NB - Power Supply/Charger*
- *(1) LINQ2 - Network Communications Module*
- *(2) ACM8 - Fused Access Power Controller*
- *(1) VR6 - Voltage Regulator*
- *(1) PDS8 - Dual Input Power Distribution Module*

Altronix®

More than just power.™

Rev. TMK051217

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____

Overview:

Altronix Trove Mercury kits are pre-assembled and consist of Trove2M2 enclosure/backplane with factory installed Altronix power supply/charger(s) and sub-assemblies. These kits also accommodate various combinations of Mercury boards for up to sixteen (16) doors in a single enclosure.

Configuration Chart:

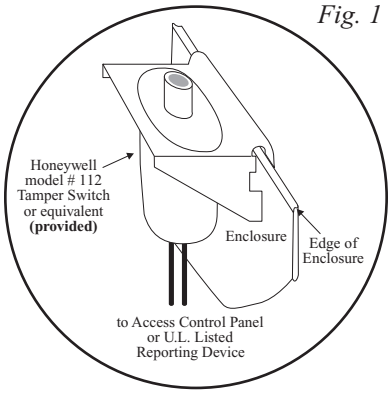
Altronix Model Number	Nominal DC Output Voltage: Power Supply 1 [DC] Output Range (VDC)	Power Supply 1 [Aux] Output Range (VDC)	Power Supply 2 [DC] Output Range (VDC)	Power Supply 2 [Aux] Output Range (VDC)	Maximum Supply Current for Main and Aux. Outputs on Power Supply board and ACM4/ACM8 Access Power Controller's outputs	Fail-Safe/Fail-Secure or Dry Form "C" Outputs	120VAC 60Hz Input Current (A)	Current Per ACM4/ACM8 Output (A)	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	ACM4/ACM8 Board Input Fuse Rating	ACM4/ACM8 Board Output Fuse Rating	PDS8 Board Input Fuse Rating	PDS8 Board Output Fuse Rating	PD8UL Board Output Fuse Rating
T2MK3F4	20.19-26.4	20.19-26.4	—	—	24VDC @ 5.8A	4	3.5	2.5	5A/250V	10A/32V	10A/250V	3A/250V	10A/250V	3A/250V	—
T2MK3F4Q	20.19-26.4	20.19-26.4	—	—	24VDC @ 5.8A	4	3.5	2.5	5A/250V	10A/32V	10A/250V	3A/250V	10A/250V	3A/250V	—
T2MK3F8	20.19-26.4	20.19-26.4	—	—	24VDC @ 5.8A	8	3.5	2.5	5A/250V	10A/32V	10A/250V	2.5A/250V	10A/250V	3A/250V	—
T2MK3F8Q	20.19-26.4	20.19-26.4	—	—	24VDC @ 5.8A	8	3.5	2.5	5A/250V	10A/32V	10A/250V	2.5A/250V	10A/250V	3A/250V	—
T2MK7F8	20.17-26.4	20.28-26.4	—	—	24VDC @ 9.2A	8	4.5	2.5	6.3A/250V	15A/32V	10A/250V	2.5A/250V	10A/250V	3A/250V	—
T2MK7F8Q	20.17-26.4	20.28-26.4	—	—	24VDC @ 9.2A	8	4.5	2.5	6.3A/250V	15A/32V	10A/250V	2.5A/250V	10A/250V	3A/250V	—
T2MK75F16	20.17-26.4	20.28-26.4	9.7-13.2	10.03-13.2	12VDC @ 9.3A 24VDC @ 9.2A	16	8	2.5	6.3A/250V 5A/250V	15A/32V	10A/250V	2.5A/250V	—	—	3.5A/250V
T2MK75F16Q	20.17-26.4	20.28-26.4	9.7-13.2	10.03-13.2	12VDC @ 9.3A 24VDC @ 9.2A	16	8	2.5	6.3A/250V 5A/250V	15A/32V	10A/250V	2.5A/250V	—	—	3.5A/250V
T2MK77F16	20.17-26.4	20.28-26.4	20.17-26.4	20.28-26.4	24VDC @ 9.2A	16	9	2.5	6.3A/250V	15A/32V	10A/250V	2.5A/250V	10A/250V	3A/250V	—
T2MK77F16Q	20.17-26.4	20.28-26.4	20.17-26.4	20.28-26.4	24VDC @ 9.2A	16	9	2.5	6.3A/250V	15A/32V	10A/250V	2.5A/250V	10A/250V	3A/250V	—

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(s) 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 (Honeywell Model 112 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. Refer to the *eFlow Power Supply/Charger Installation Guide* (eFlow6NB, eFlow102NB, eFlow104NB) and *Sub-Assembly Installation Guide* for the following models: ACM4CB, ACM8CB, LINQ2, PDS8CB, VR6 for further installation instructions.
5. Fasten snap on standoffs onto metal pems configuration of backplane depending on the Mercury access controller *(Fig. 2-5, pg. 3-6)*.
6. Position Mercury access controller module over corresponding standoffs and depress onto snap on standoffs *(Fig. 2-5, pg. 3-6)*.
7. Mount backplane to enclosure with hardware.

Fig. 1



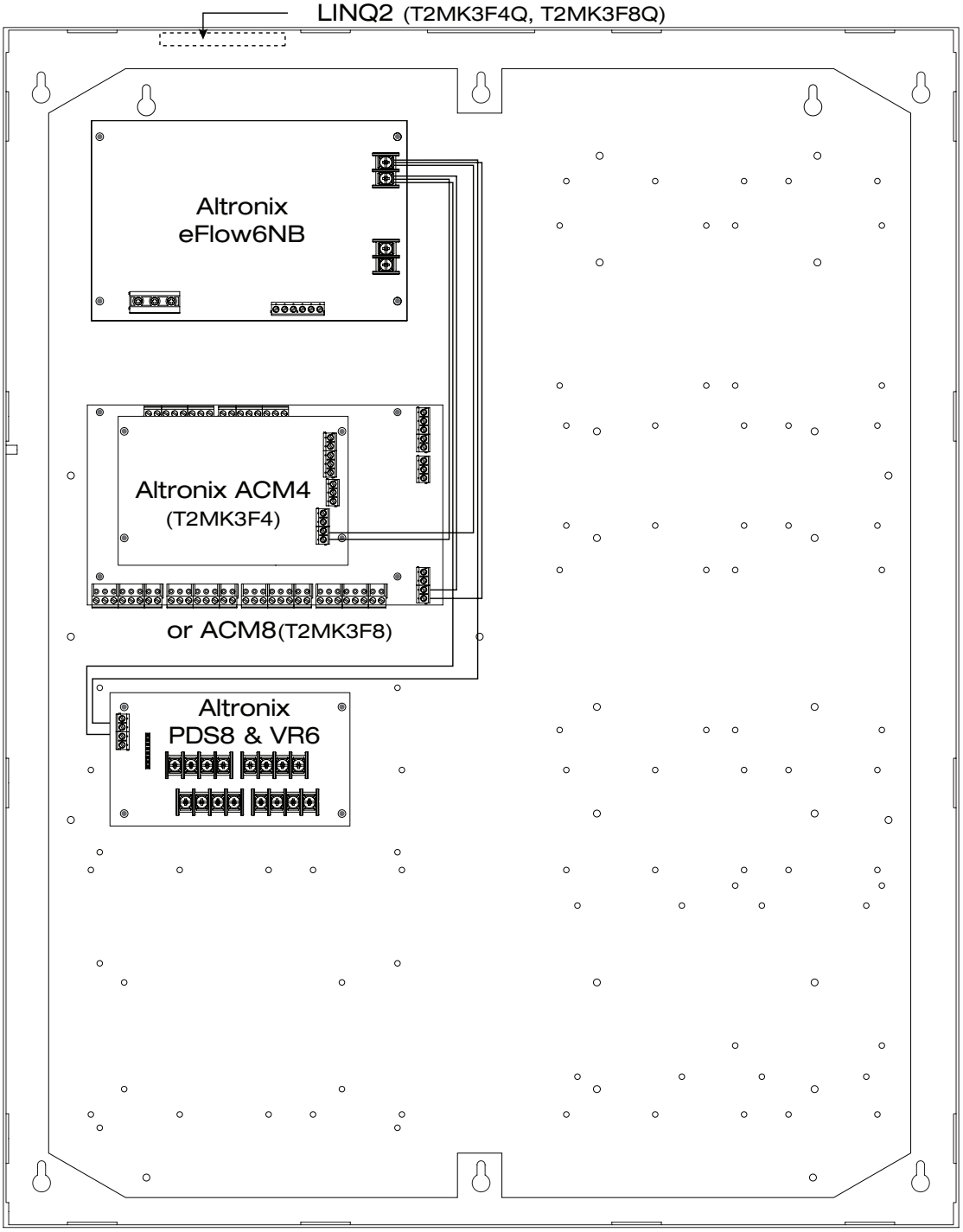
T2MK3F4:
One (1) eFlow6NB - 24VDC @ 6A Power Supply/Charger, one (1) ACM4 - 4 fused output Access Power Controller, one (1) VR6 - 24VDC input to 12VDC output Voltage Regulator, and one (1) PDS8 - 8 fused output Dual Input Power Distribution Module.

T2MK3F4Q:
One (1) eFlow6NB - 24VDC @ 6A Power Supply/Charger, one (1) LINQ2 Network Communication Module, one (1) ACM4 - 4 fused output Access Power Controller, one (1) VR6 - 24VDC input to 12VDC output Voltage Regulator, and one (1) PDS8 - 8 fused output Dual Input Power Distribution Module.

T2MK3F8:
One (1) eFlow6NB - 24VDC @ 6A Power Supply/Charger, one (1) ACM8 - 8 fused output Access Power Controller, one (1) VR6 - 24VDC input to 12VDC output Voltage Regulator, and one (1) PDS8 - 8 fused output Dual Input Power Distribution Module.

T2MK3F8Q:
One (1) eFlow6NB - 24VDC @ 6A Power Supply/Charger, one (1) LINQ2 Network Communication Module, one (1) ACM8 - 8 fused output Access Power Controller, one (1) VR6 - 24VDC input to 12VDC output Voltage Regulator, and one (1) PDS8 - 8 fused output Dual Input Power Distribution Module.

Fig. 2



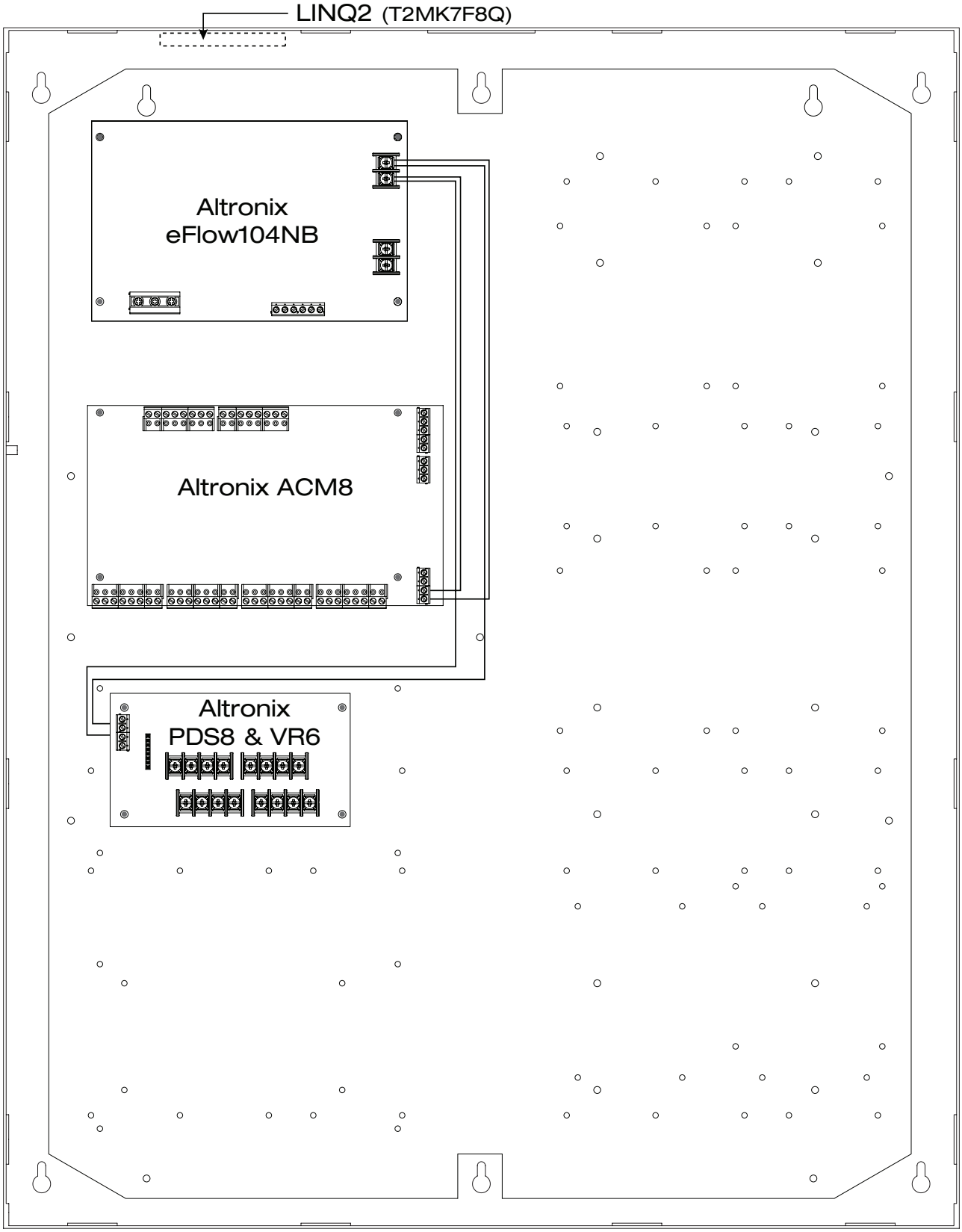
T2MK7F8:

One (1) eFlow104NB - 24VDC @ 10A Power Supply/Charger, one (1) ACM8 - 8 fused output Access Power Controller, one (1) VR6 - 24VDC input to 12VDC output Voltage Regulator, and one (1) PDS8 - 8 fused output Dual Input Power Distribution Module.

T2MK7F8Q:

One (1) eFlow104NB - 24VDC @ 10A Power Supply/Charger, one (1) LINQ2 Network Communication Module, one (1) ACM8 - 8 fused output Access Power Controller, one (1)VR6 - 24VDC input to 12VDC output Voltage Regulator, and one (1) PDS8 - eight 8 fused output Dual Input Power Distribution Module.

Fig. 3



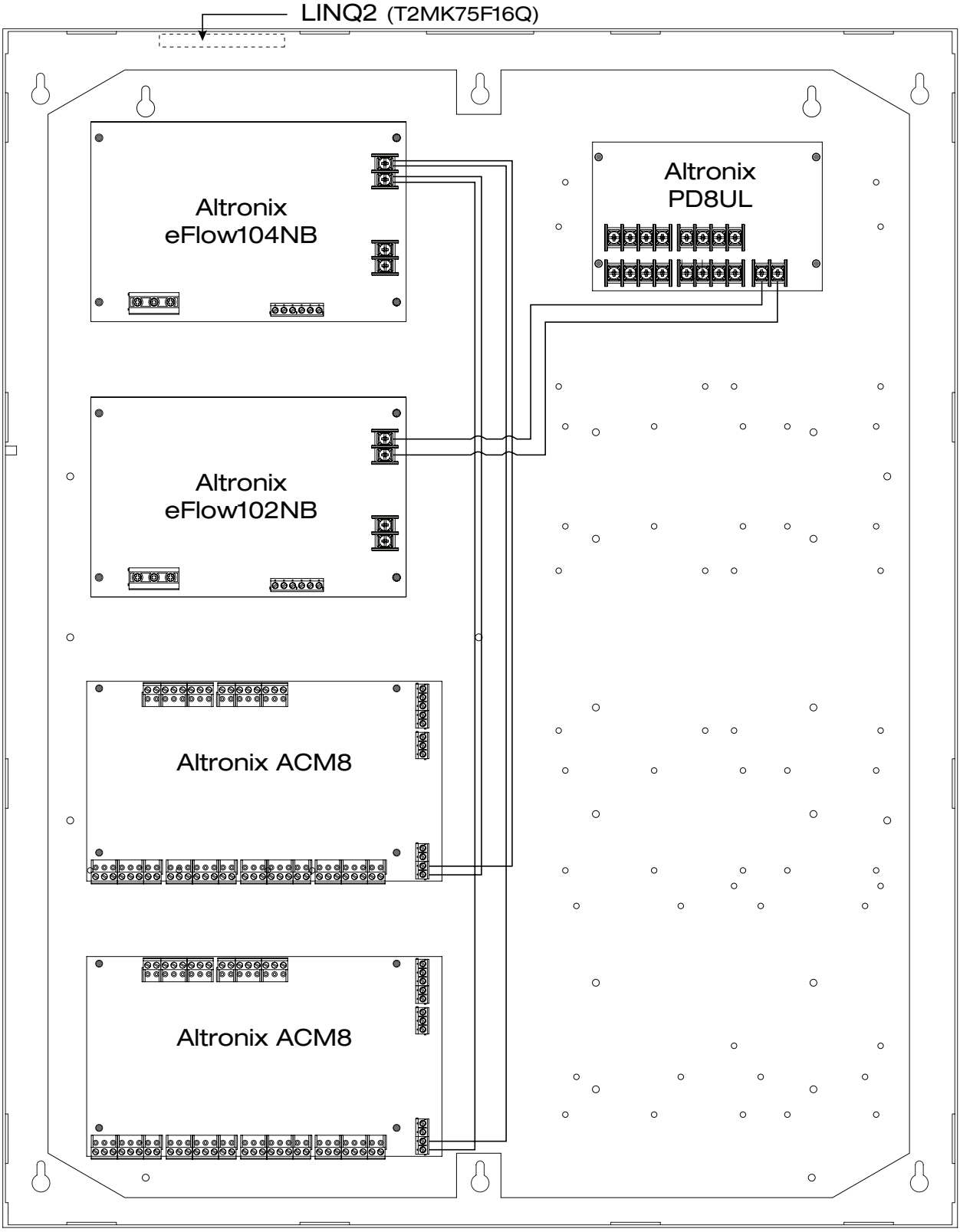
T2MK75F16:

One (1) eFlow104NB - 24VDC @ 10A Power Supply/Charger and one (1) eFlow102NB - 12VDC @ 10A Power Supply/Charger, two (2) ACM8 - 8 fused output Access Power Controller, and one (1) PD8UL - 8 fused output Power Distribution Module.

T2MK75F16Q:

One (1) eFlow104NB - 24VDC @ 10A Power Supply/Charger and one (1) eFlow102NB - 12VDC @ 10A Power Supply/Charger, one (1) LINQ2 Network Communication Module, two (2) ACM8 - 8 fused output Access Power Controller, and one (1) PD8UL - 8 fused output Power Distribution Module..

Fig. 4



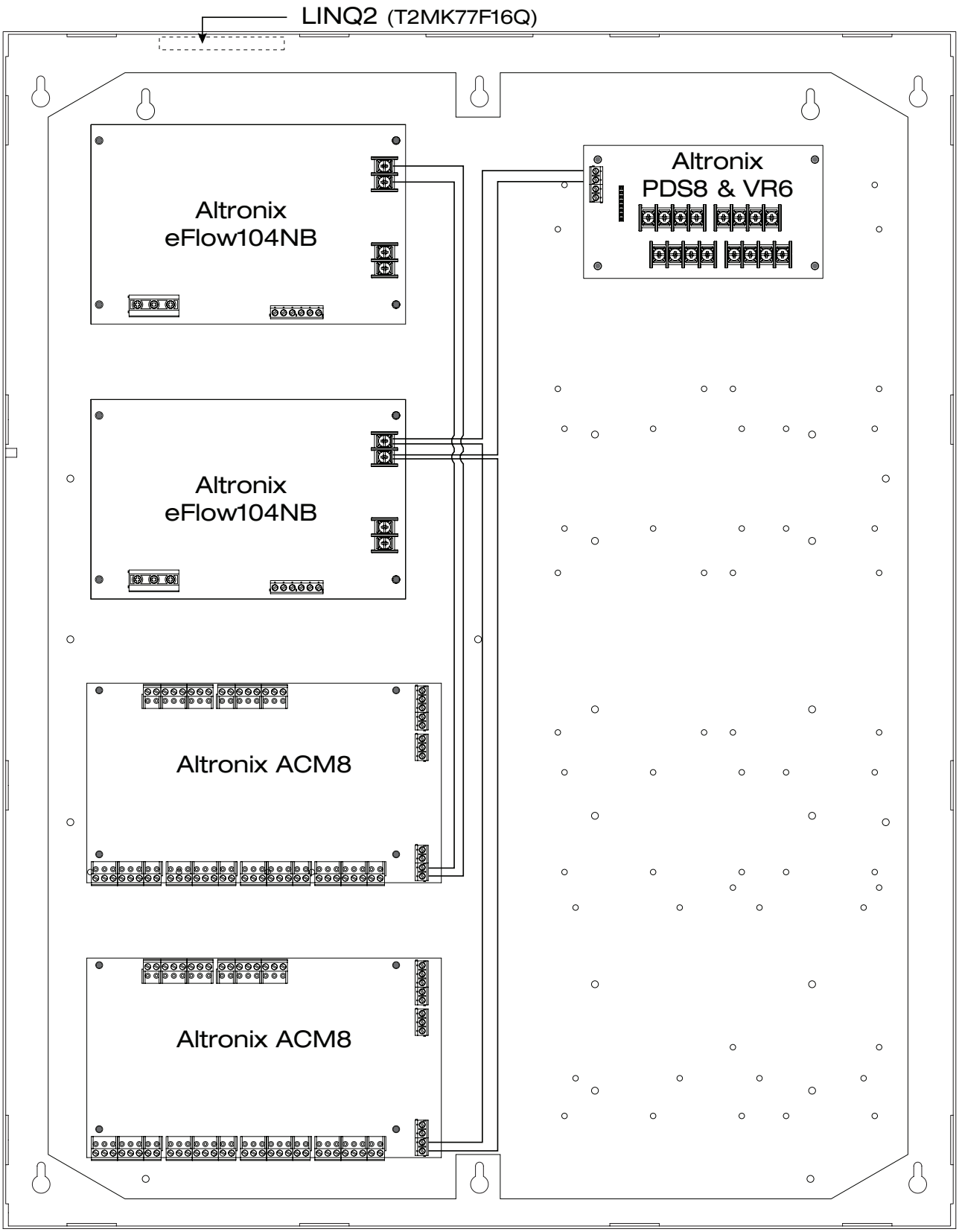
T2MK77F16:

Two (2) eFlow104NB - 24VDC @ 6A Power Supply/Charger, two (2) ACM8 - 8 fused output Access Power Controller, one (1) VR6 - 24VDC input to 12VDC output Voltage Regulator and one (1) PDS8 - 8 fused output Dual Input Power Distribution Module.

T2MK77F16Q:

Two (2) eFlow104NB - 24VDC @ 6A Power Supply/Charger, one (1) LINQ2 Network Communication Module , two (2) ACM8 - 8 fused output Access Power Controller, one (1) VR6 - 24VDC input to 12VDC output Voltage Regulator and one (1) PDS8 - 8 fused output Dual Input Power Distribution Module.

Fig. 5



TMV2 (T2MK75F16, T2MK75F16Q, T2MK77F16, and T2MK77F16Q):

TMV2 accommodates a variety of Mercury boards with or without Altronix sub-assemblies for access systems.

Configuration of Mercury and/or Altronix Boards

Mercury Access Controllers:

1. Fasten snap on standoffs onto metal pems configuration (A) (B) of backplane depending on the access controller *(Fig. 5, pg. 6)*.
2. Position access controller module over corresponding standoffs and depress onto snap on standoffs *(Fig. 5a, pg. 6)*.
3. Mount backplane to enclosure with hardware.

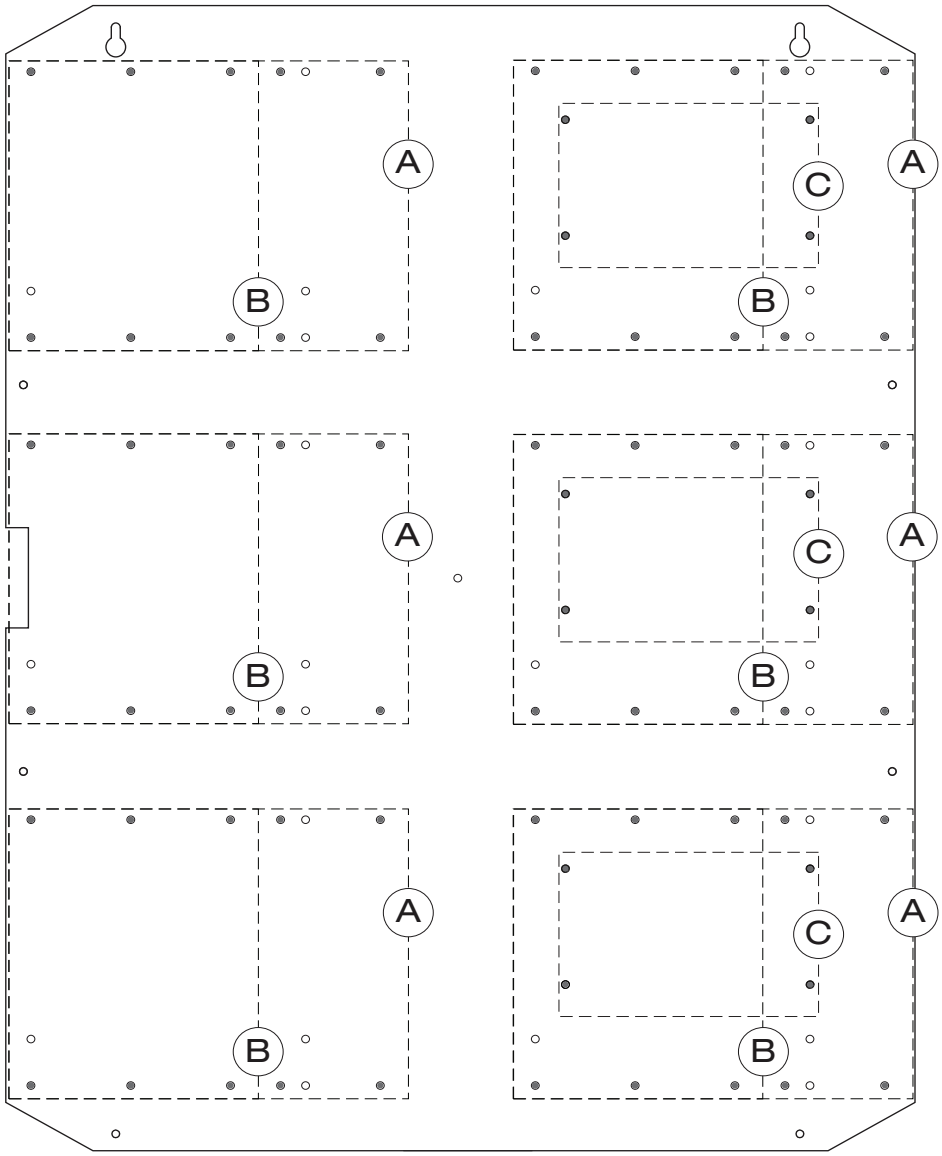
Altronix Sub-Assemblies and/or Adapters:

1. Fasten nylon / snap on standoffs to pems which match the hole pattern for Altronix Sub-Assemblies *(Fig. 5, 5a, pg. 6)*.
2. Mount boards to standoffs utilizing pan head screws provided with the product or by depressing board onto snap on standoff *(Fig. 5, pg. 6)*.
   Note: For GB1 please use standoffs supplied with the adapter.

Access Controller Position Chart for the Following Models:

Mercury	
Access Controller	**Pem Mounting**
EP1502, MR52, MR16IN, MR16OUT	Ⓐ
EP2500, MUX8	Ⓑ
Altronix	
Sub-Assembly or Adapter	**Pem Mounting**
ACM4(CB), MOM5, PD4UL(CB), PD8UL(CB), PDS8(CB), VR6, GB1 (Genetec Synergis Cloud Link adapter plate)	Ⓒ

Fig. 5



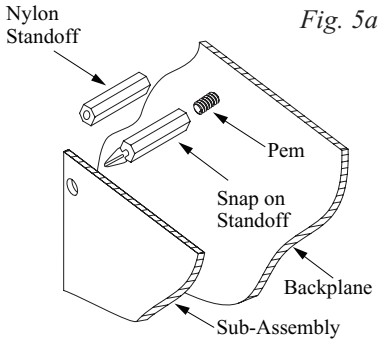
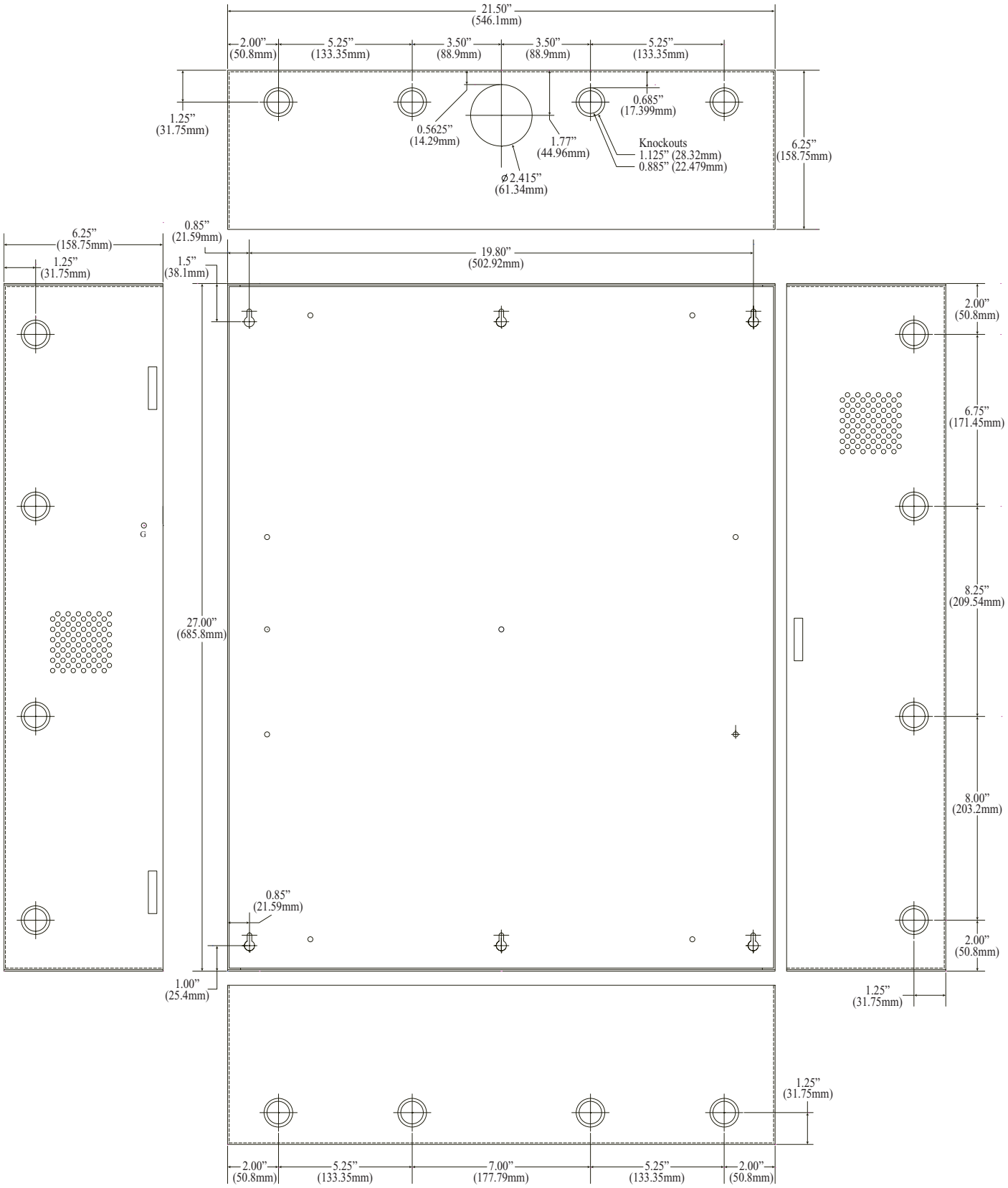


Fig. 5a

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

27.25” x 21.5” x 6.5” (692.15mm x 552.5mm x 165.1mm)