TROVE™

Access & Power Integration

Altronix Trove2/Axis Communications Kits

T2AXK3F8S
8 Door Kit with Fused Outputs
Accommodates Axis A1810-B
Fully assembled kit includes:
- Trove2 enclosure with TAX2 Altronix/Axis backplane
- One (1) eFlow6NB - 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

T2AXK5F8P
8 Door Kit with Fused Outputs
Accommodates Axis A1810-B
Fully assembled kit includes:
- Trove2 enclosure with TAX2 Altronix/Axis backplane
- One (1) eFlow102NB - Power Supply/Charger
- One (1) PD8UL - Fused Power Distribution Module

T2AXK7F8S
8 Door Kit with Fused Outputs
Accommodates Axis 1601, Axis 1610 (mounted onto DIN Rail) and Axis 1210
Fully assembled kit includes:
- Trove2 enclosure with TAX2 Altronix/Axis 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

T2AXK7F8S2
8 Door Kit with Fused Outputs
Accommodates Axis A1810-B
Fully assembled kit includes:
- Trove2 enclosure with TAX2 Altronix/Axis 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

T2AXK3F8AQ
8 Door Kit with Fused Outputs
Accommodates Axis A1810-B
Fully assembled kit includes:
- Trove2 enclosure with TAX2 Altronix/Axis backplane
- One (1) eFlow6NB - Power Supply/Charger
- One (1) LINQ8ACM - Networked Fused Access Power Controller
- One (1) VR6 - Voltage Regulator
- One (1) PDS8 - Dual Input Fused Power Distribution Module

T2AXK55F12P
12 Door Kit with Fused Outputs
Accommodates Axis A1810-B
Fully assembled kit includes:
- Trove2 enclosure with TAX2 Altronix/Axis backplane
- Two (2) eFlow102NB - Power Supply/Chargers
- Two (2) PD8UL - Fused Power Distribution Modules

T2AXK75F12
12 Door Kit with Fused Outputs
Accommodates Axis A1810-B
Fully assembled kit includes:
- Trove2 enclosure with TAX2 Altronix/Axis backplane
- One (1) eFlow104NB - Power Supply/Charger
- One (1) eFlow102NB - Power Supply/Charger
- One (1) ACMS12 - Dual Input Fused Access Power Controller
- One (1) PDS16 - Dual Input Fused Power Distribution Module

T2AXK3F8SD
8 Door Kit with PTC Outputs
Accommodates Axis A1810-B
Fully assembled kit includes:
- Trove2 enclosure with TAX2 Altronix/Axis backplane
- One (1) eFlow6NB - 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

T2AXK5F8PD
8 Door Kit with PTC Outputs
Accommodates Axis A1810-B
Fully assembled kit includes:
- Trove2 enclosure with TAX2 Altronix/Axis backplane
- One (1) eFlow102NB - Power Supply/Charger
- One (1) PD8ULCB - PTC Power Distribution Module

T2AXK7F8SD
8 Door Kit with PTC Outputs
Accommodates Axis 1601, Axis 1610 (mounted onto DIN Rail) and Axis 1210
Fully assembled kit includes:
- Trove2 enclosure with TAX2 Altronix/Axis 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

T2AXK7F8S2D
8 Door Kit with PTC Outputs
Accommodates Axis A1810-B
Fully assembled kit includes:
- Trove2 enclosure with TAX2 Altronix/Axis 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

T2AXK3F8ADQ
8 Door Kit with PTC Outputs
Accommodates Axis A1810-B
Fully assembled kit includes:
- Trove2 enclosure with TAX2 Altronix/Axis backplane
- One (1) eFlow6NB - Power Supply/Charger
- One (1) LINQ8ACMCB - Networked PTC Access Power Controller
- One (1) VR6 - Voltage Regulator
- One (1) PDS8CB - Dual Input PTC Power Distribution Module

T2AXK55F12PD
12 Door Kit with PTC Outputs
Accommodates Axis A1810-B
Fully assembled kit includes:
- Trove2 enclosure with TAX2 Altronix/Axis backplane
- Two (2) eFlow102NB - Power Supply/Chargers
- Two (2) PD8ULCB - PTC Power Distribution Modules

T2AXK75F12D
12 Door Kit with PTC Outputs
Accommodates Axis A1810-B
Fully assembled kit includes:
- Trove2 enclosure with TAX2 Altronix/Axis backplane
- One (1) eFlow104NB - Power Supply/Charger
- One (1) eFlow102NB - Power Supply/Charger
- One (1) ACMS12CB - Dual Input PTCAccess Power Controller
- One (1) PDS16CB - Dual Input PTC Power Distribution Module

Installation Guide

Altronix®

More than just power.™

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Rev. T2AXK081225

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____

Overview:

Altronix Trove Axis Communications 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 Axis Communications modules for up to twelve doors in a single enclosure.

Configuration Chart:

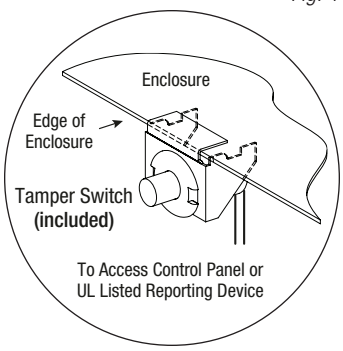
Altronix Model Number	120VAC 60Hz Input Current (A)	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	Nominal DC Output Voltage				Maximum Supply Current for Main and Aux. Outputs on Power Supply board and Sub-Assemblies' outputs	Fail-Safe/Fail-Secure or Dry Form "C" Outputs	Current Per ACMS8(CB), ACMS12(CB) or LINQ8QCM(CB) Output (A)	ACMS8(CB), ACMS12(CB) or LINQ8QCM(CB) Board Input Fuse (PTC) Rating	ACMS8(CB), ACMS12(CB) or LINQ8QCM(CB) Board Output Fuse (PTC) Rating	PDS8(CB) or PDS16(CB) Board Input Fuse (PTC) Rating	PD8UL(CB), PDS8(CB) or PDS16(CB) BoardOutput 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)							
T2AXK3F8S	3.5	5A/ 250V	10A/ 32V	20.17-26.4	20.28-26.4	–	–	24VDC @ 5.6A	8	2.5	15A/32V	3A/32V	10A/32V	3A/32V
T2AXK3F8SD										2.0	9A	2.5A	9A	2.5A
T2AXK5F8P	3.5	5A/ 250V	15A/ 32V	9.7-13.2	10.03-13.2	–	–	124VDC @ 10A	–	–	–	–	–	3.5A/250V
T2AXK5F8PD														2.5A
T2AXK7F8S	4.5	6.3A/ 250V	15A/ 32V	20.17-26.4	20.28-26.4	–	–	24VDC @ 9.2A	8	2.5	15A/32V	3A/32V	10A/32V	3A/32V
T2AXK7F8SD										2.0	9A	2.5A	9A	2.5A
T2AXK7F8S2	4.5	6.3A/ 250V	15A/ 32V	20.17-26.4	20.28-26.4	–	–	24VDC @ 9.2A	8	2.5	15A/32V	3A/32V	10A/32V	3A/32V
T2AXK7F8S2D										2.0	9A	2.5A	9A	2.5A
T2AXK3F8AQ	3.5	5A/ 250V	10A/ 32V	20.17-26.4	20.28-26.4	–	–	24VDC @ 5.6A	8	2.5	15A/32V	3A/32V	10A/32V	3A/32V
T2AXK3F8ADQ										2.0	9A	2.5A	9A	2.5A
T2AXK55F12P	7.0	5A/ 250V	15A/ 32V	9.7-13.2	10.03-13.2	9.7-13.2	10.03-13.2	124VDC @ 10A + 124VDC @ 10A	–	–	–	–	–	3.5A/250V
T2AXK55F12PD														2.5A
T2AXK75F12	7.0	6.3A/ 250V	15A/ 32V	20.17-26.4	20.28-26.4	9.7-13.2	10.03-13.2	24VDC @ 9.6A + 12VDC @ 9.7A	12	2.5	15A/32V	3A/32V	10A/32V	3A/32V
T2AXK75F12D										2.0	9A	2.5A	9A	2.5A

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(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 (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 Axis Communications modules to backplane(s), refer to *page 3-8*.
7. Refer to the *eFlow Power Supply/Charger Installation Guide* foreFlow6NB, eFlow104NB and eFlow102NB and corresponding *Sub-Assembly Installation Guides* for ACMS8(CB), ACMS12(CB), LINQ8ACM(CB), PDS16(CB), PDS8(CB), PD8UL(CB) and VR6 for further installation instructions.

Fig. 1



Hardware:

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

T2AXK3F8S(D): Installation Instructions for Axis Communications Access Controllers on TAX2:

1. Fasten mounting magnets (provided) to Axis A1810-B with screws and spacers (provided) using the controllers' mounting holes *(Fig. 2, pg. 3)*.
2. Attach mounting magnets to TAX2 in the approximate position as shown below *(Fig. 2a, pg. 3)*.
3. Fasten TAX2 backplane to Trove2 enclosure utilizing provided hardware.

Fig. 2

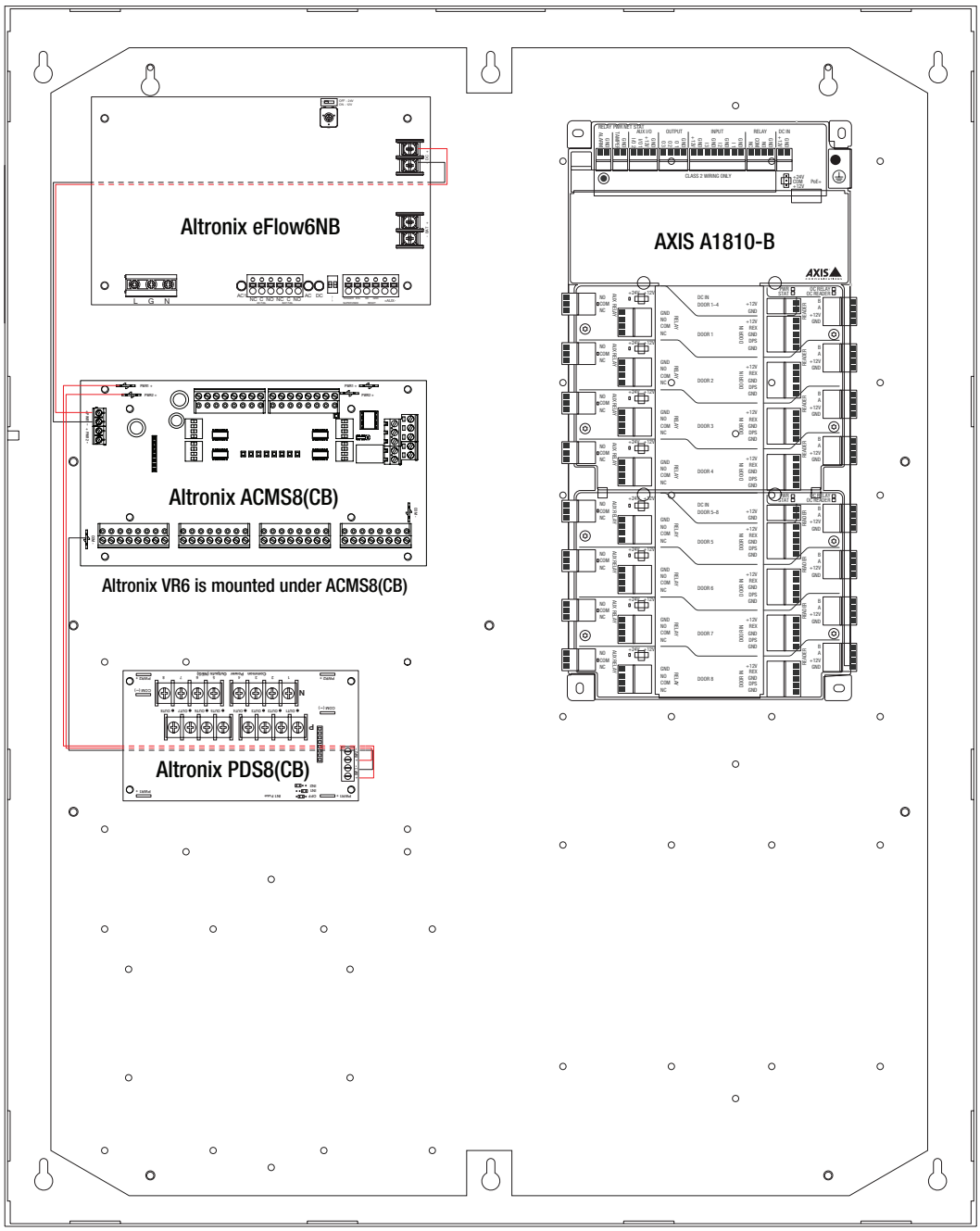
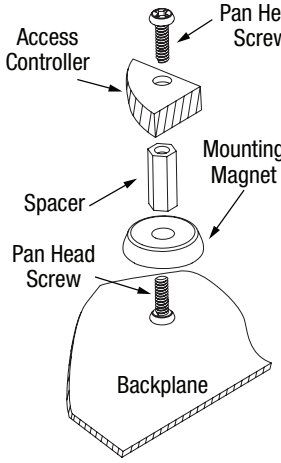


Fig. 2a



T2AXK5F8P(D): Installation Instructions for Axis Communications Access Controllers on TAX2:

1. Fasten mounting magnets (provided) to Axis A1810-B with screws and spacers (provided) using the controllers' mounting holes *(Fig. 3, pg. 4).*
2. Attach mounting magnets to TAX2 in the approximate position as shown below *(Fig. 3a, pg. 4).*
3. Fasten TAX2 backplane to Trove2 enclosure utilizing provided hardware.

Fig. 3

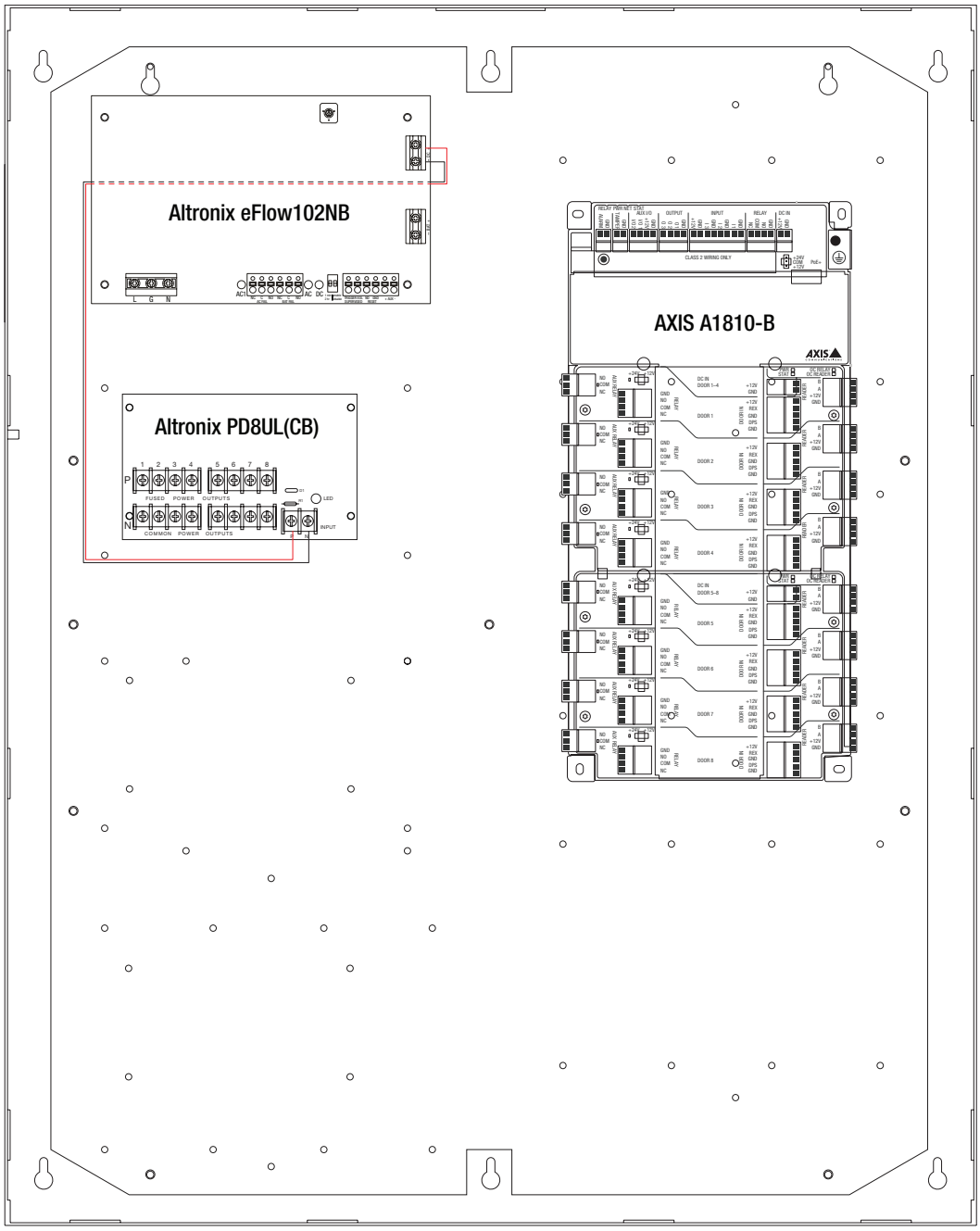
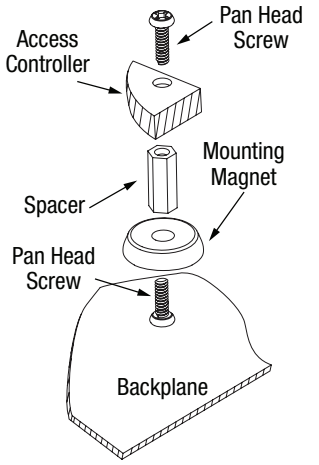


Fig. 3a



T2AXK7F8S(D): Installation Instructions for Axis Communications Access Controllers on TAX2:

1. For Axis 1601, Axis 1610: fasten DIN Rail (provided) to pem spacers, utilizing 5/16" pan head screws (included) *(Fig. 4, pg. 5)*.
2. For Axis 1210: fasten spacers (provided) into pem configuration (B) of backplane *(Fig. 4, pg. 5)*.
3. Mount boards to spacers utilizing 5/16" pan head screws (provided) *(Fig. 4a, pg. 5)*.
4. Mount backplane to enclosure with hardware.

Axis Communications Access Controller Position Chart for the Following Models:

Altronix/Axis Communications	Pem Mounting
Axis 1601, Axis 1610 (mounted onto DIN Rail)	A
Axis 1210	B

Fig. 4

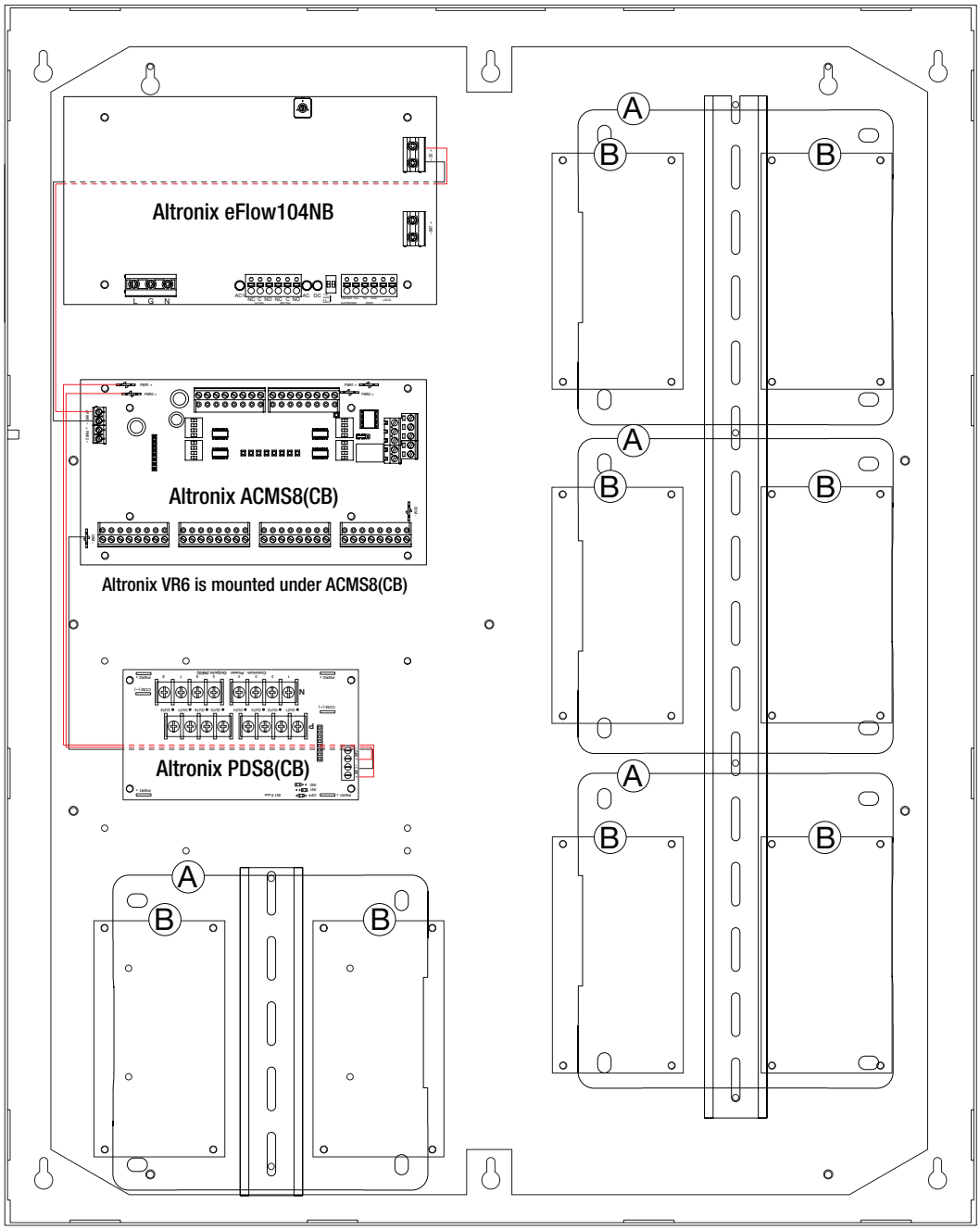
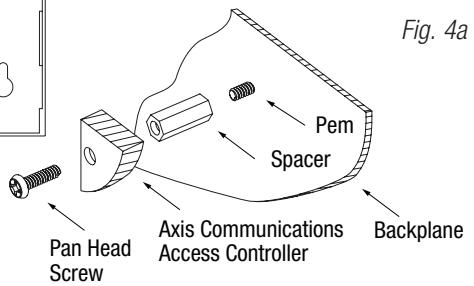


Fig. 4a



T2AXK7F8S2(D): Installation Instructions for Axis Communications Access Controllers on TAX2:

1. Fasten mounting magnets (provided) to Axis A1810-B with screws and spacers (provided) using the controllers' mounting holes *(Fig. 5 pg. 6)*.
2. Attach mounting magnets to TAX2 in the approximate position as shown below *(Fig. 5a, pg. 6)*.
3. Fasten TAX2 backplane to Trove2 enclosure utilizing provided hardware.

Fig. 5

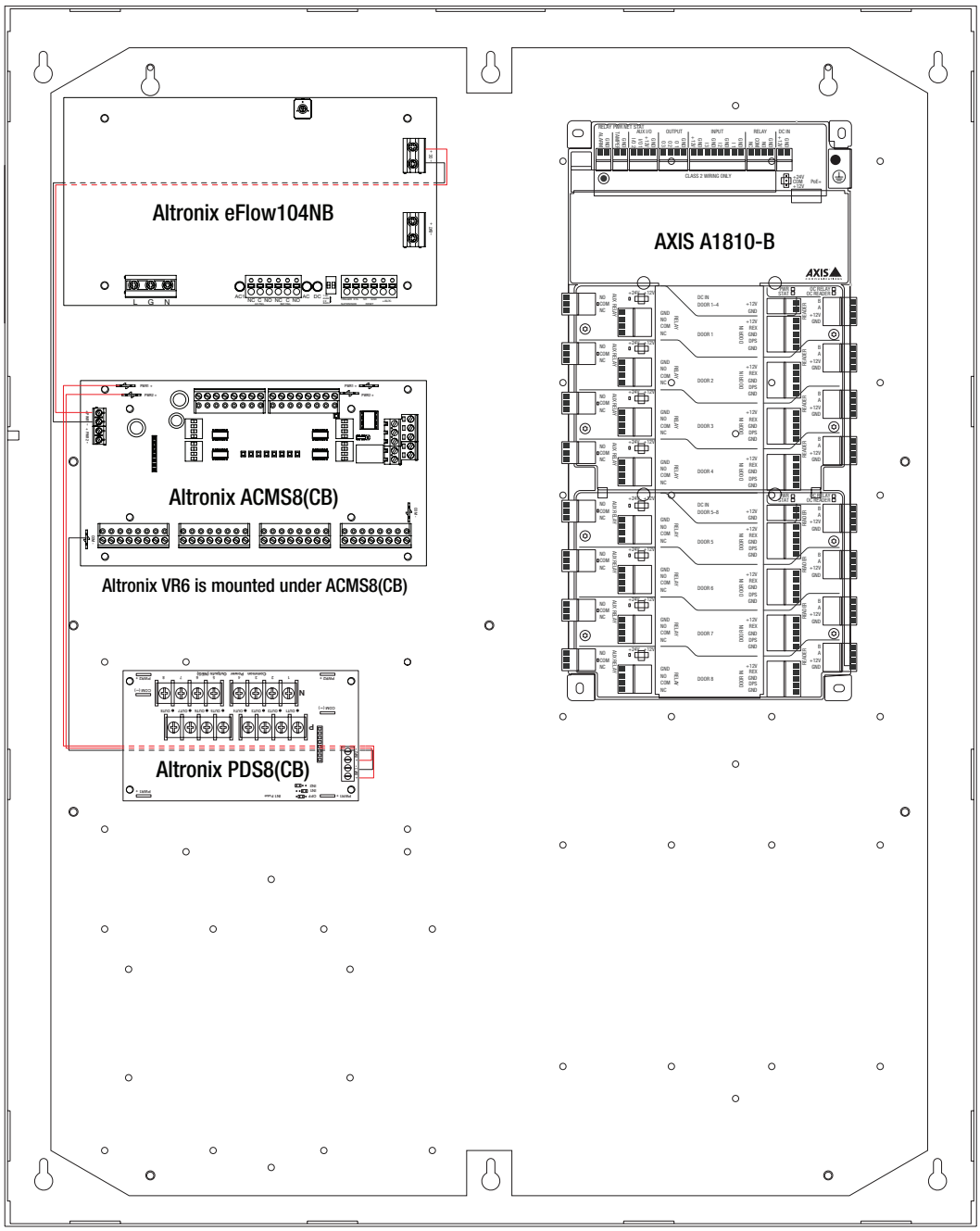
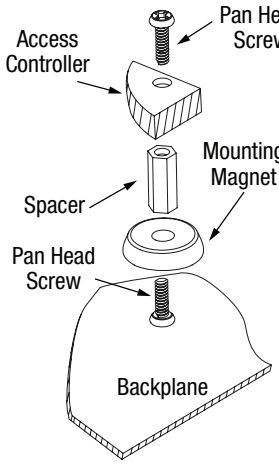


Fig. 5a



T2AXK3F8A(D)Q: Installation Instructions for Axis Communications Access Controllers on TAX2:

1. Fasten mounting magnets (provided) to Axis A1810-B with screws and spacers (provided) using the controllers' mounting holes *(Fig. 6 pg. 7)*.
2. Attach mounting magnets to TAX2 in the approximate position as shown below *(Fig. 6a, pg. 7)*.
3. Fasten TAX2 backplane to Trove2 enclosure utilizing provided hardware.

Fig. 6

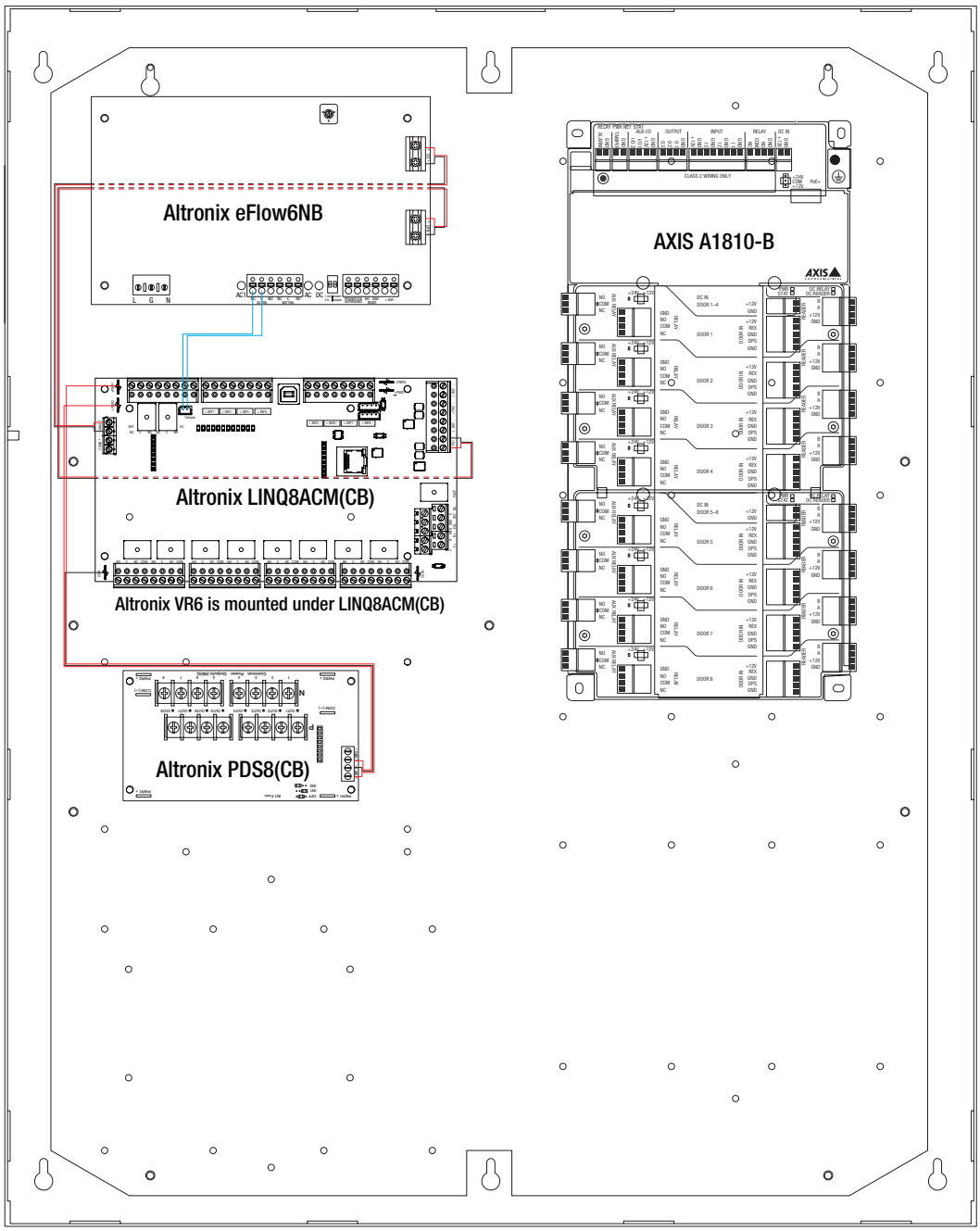
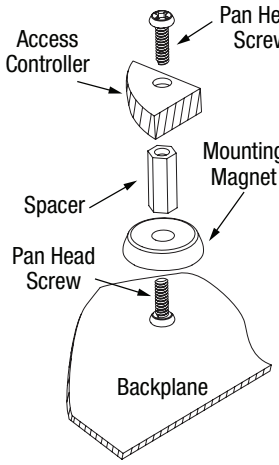


Fig. 6a



T2AXK55F12P(D): Installation Instructions for Axis Communications Access Controllers on TAX2:

1. Fasten mounting magnets (provided) to Axis A1810-B and/or A1710-B with screws and spacers (provided) using the controllers' mounting holes *(Fig. 7, pg. 8)*.
2. Attach mounting magnets to TAX2 in the approximate position as shown below *(Fig. 7a, pg. 8)*.
3. Fasten TAX2 backplane to Trove2 enclosure utilizing provided hardware.

Fig. 7

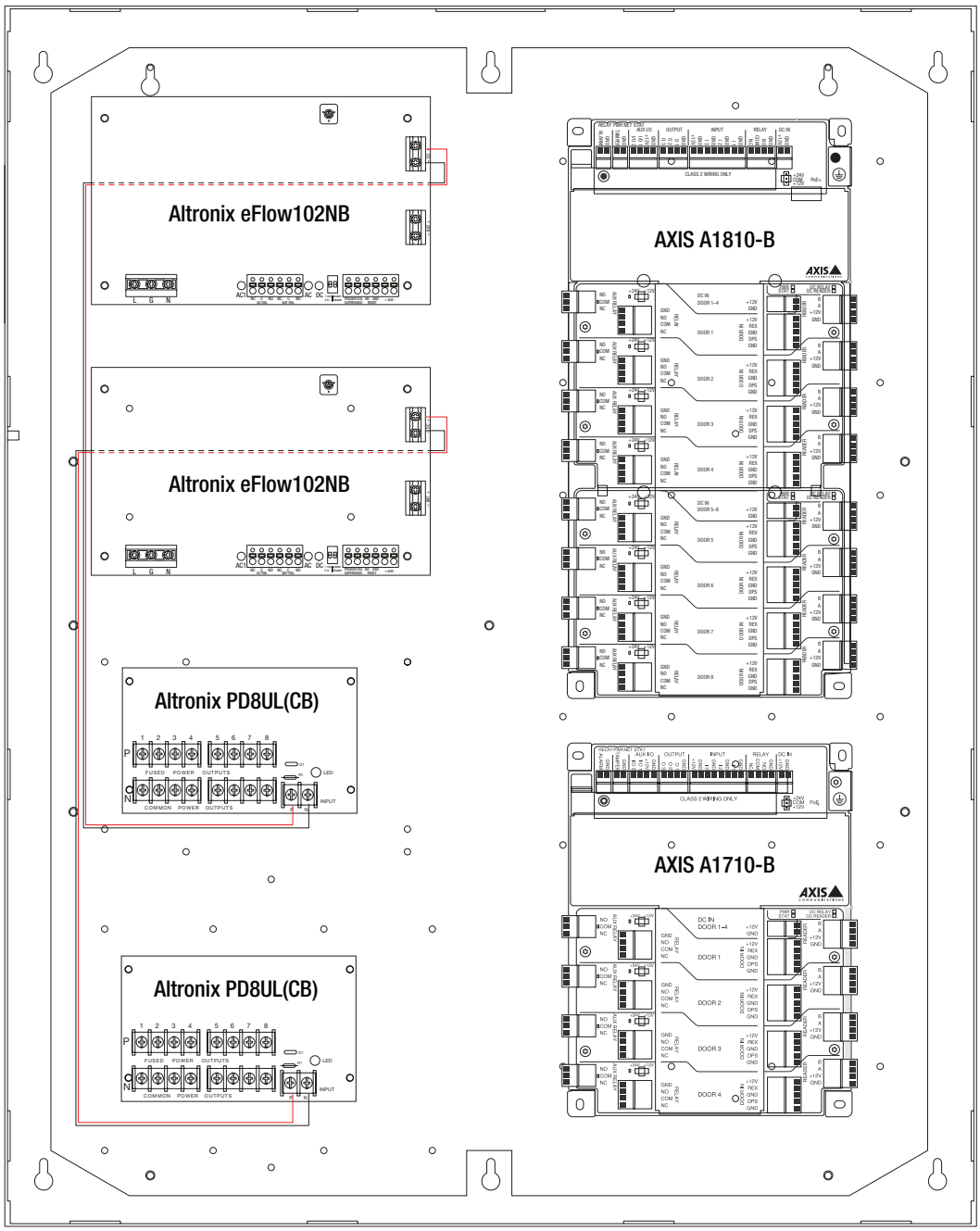
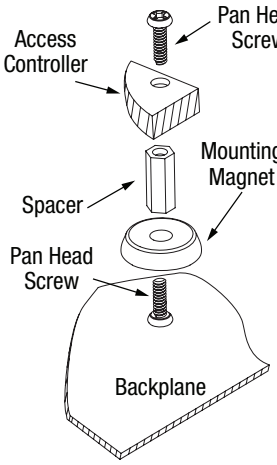


Fig. 7a



T2AXK75F12(D): Installation Instructions for Axis Communications Access Controllers on TAX2:

1. Fasten mounting magnets (provided) to Axis A1810-B and/or A1710-B with screws and spacers (provided) using the controllers' mounting holes *(Fig. 8, pg. 9)*.
2. Attach mounting magnets to TAX2 in the approximate position as shown below *(Fig. 8a, pg. 9)*.
3. Fasten TAX2 backplane to Trove2 enclosure utilizing provided hardware.

Fig. 8

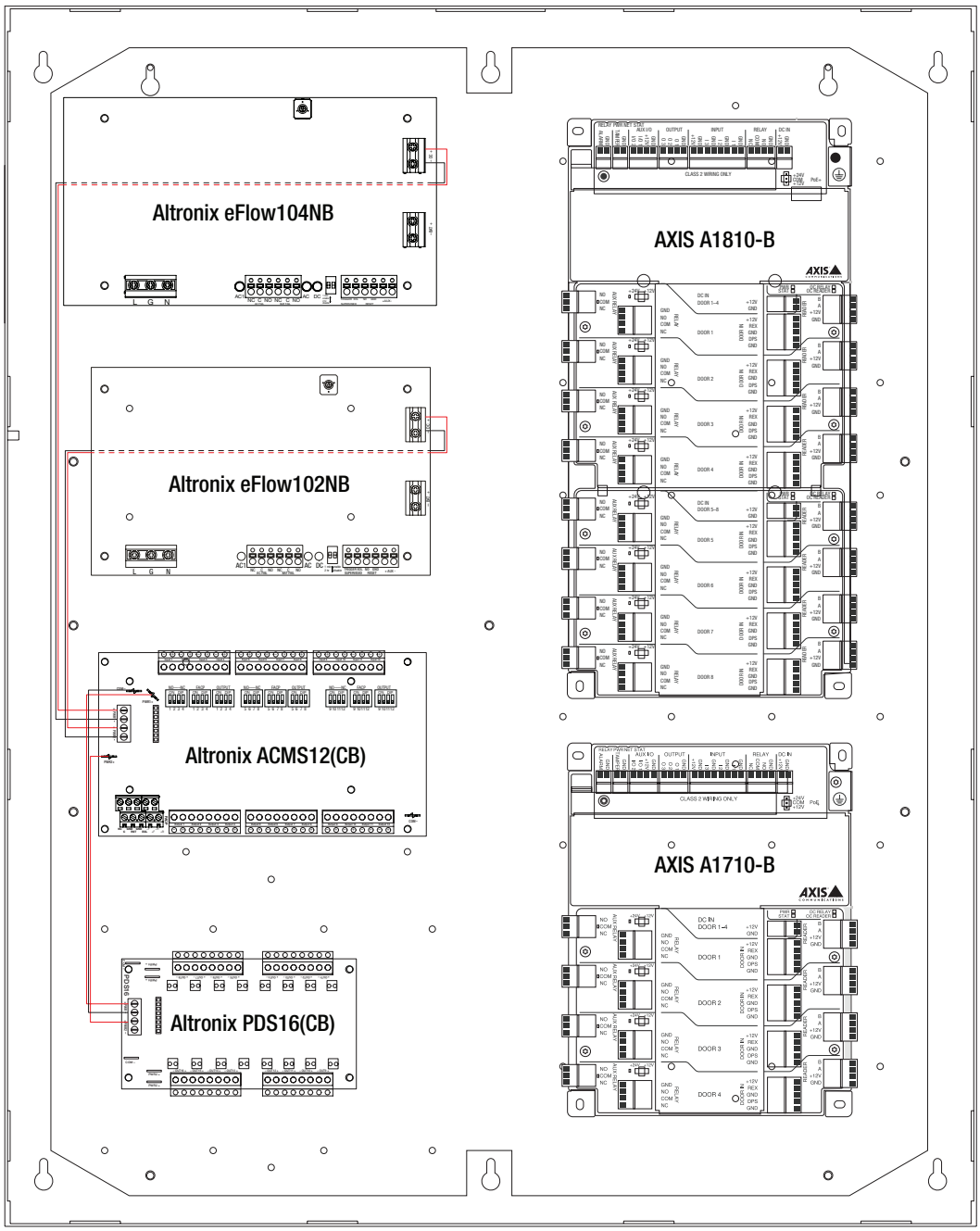
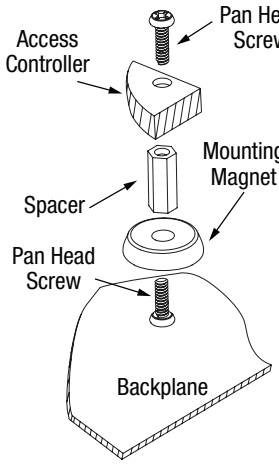
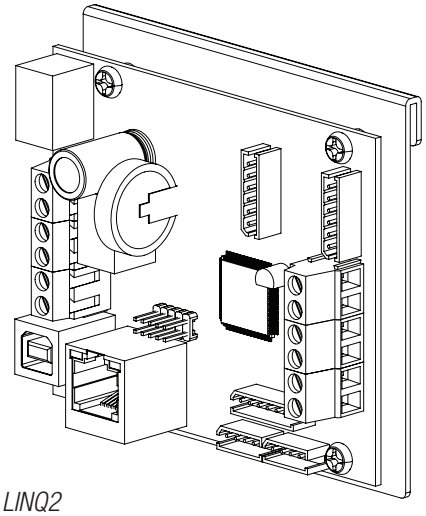


Fig. 8a



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



LINQ2

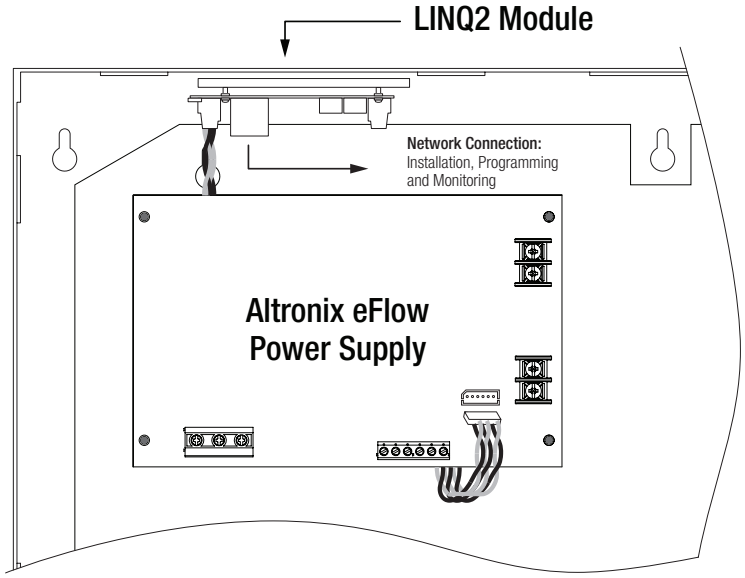
LINQ2 - Network Communication Module

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.

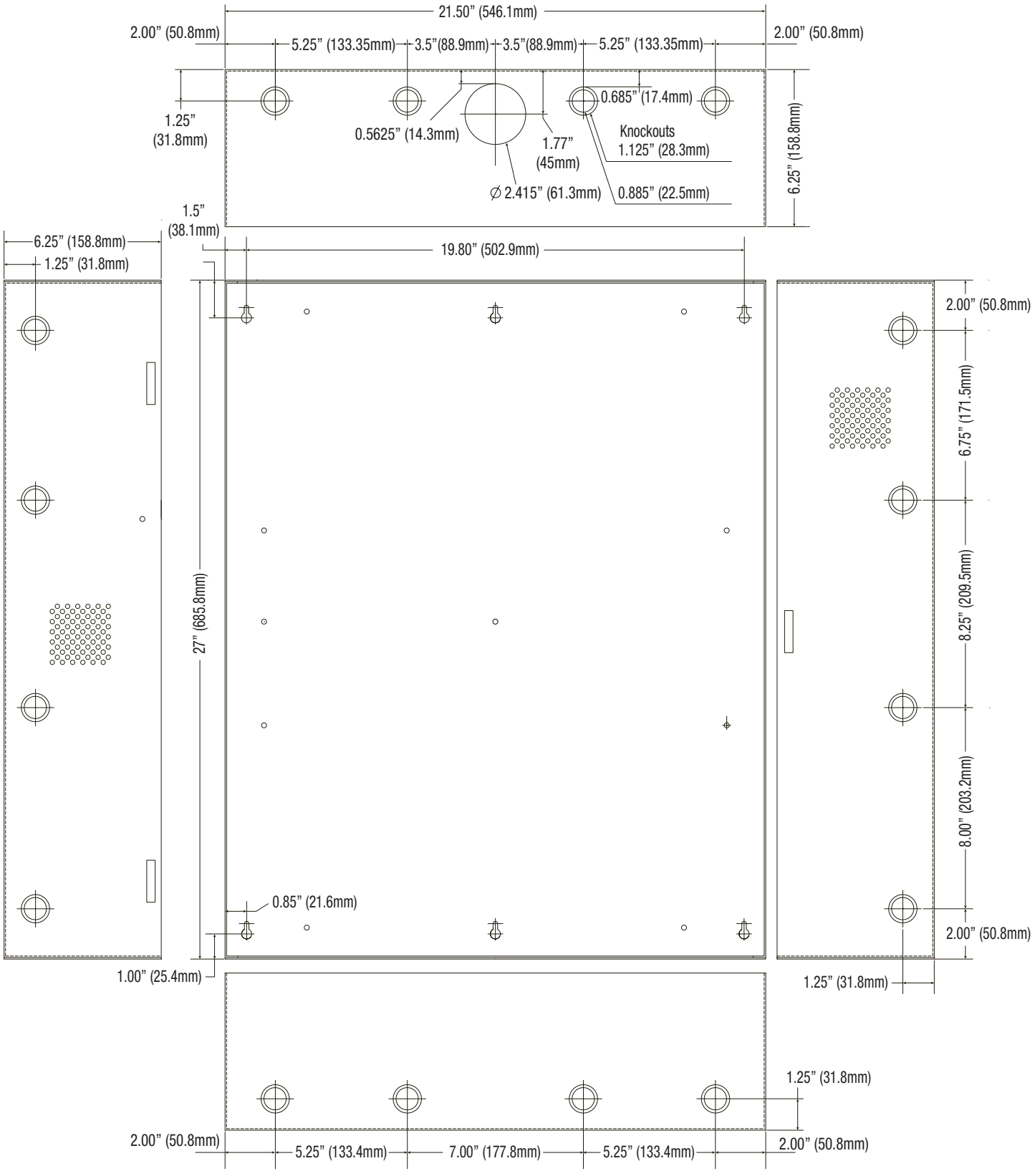
LINQ2 Mounts Inside any Trove Enclosure



Notes:

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

27.25” x 21.75” x 6.5” (692.2mm x 552.5mm x 165.1mm)



Altronix is not responsible for any typographical errors. Product specifications are subject to change without notice.

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