TROVE™

Access & Power Integration

Altronix/Keri Systems Kits

Models Include:

T2KSK3F8

8 Door Kit with Fused Outputs

Fully assembled kit includes:

- Trove2 enclosure with TKS2 Altronix/Keri Systems backplane
- One (1) eFlow6NB - Power Supply/Charger
- One (1) ACMS8 - Dual Output Fused Access Power Controller
- One (1) VR6 - Voltage Regulator
- One (1) PDS8 - Dual Input Fused Power Distribution Module

T2KSK3F8D

8 Door Kit with PTC Outputs

Fully assembled kit includes:

- Trove2 enclosure with TKS2 Altronix/Keri Systems backplane
- One (1) eFlow6NB - Power Supply/Charger
- One (1) ACMS8CB - Dual Output PTC Access Power Controller
- One (1) VR6 - Voltage Regulator
- One (1) PDS8CB - Dual Input PTC Power Distribution Module

T2KSK7F12

12 Door Kit with Fused Outputs

Fully assembled kit includes:

- Trove2 enclosure with TKS2 Altronix/Keri Systems backplane
- One (1) eFlow104NB - Power Supply/Charger
- One (1) ACMS8 - Dual Output Fused Access Power Controller
- One (1) VR6 - Voltage Regulator
- One (1) PDS8 - Dual Input Fused Power Distribution Module
- One (1) ACM4 - Fused Access Power Controller

T2KSK7F12D

12 Door Kit with PTC Outputs

Fully assembled kit includes:

- Trove2 enclosure with TKS2 Altronix/Keri Systems backplane
- One (1) eFlow104NB - Power Supply/Charger
- One (1) ACMS8CB - Dual Output PTC Access Power Controller
- One (1) VR6 - Voltage Regulator
- One (1) PDS8CB - Dual Input PTC Power Distribution Module
- One (1) ACM4CB - PTC Access Power Controller

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

CE

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More than just power.™

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Rev. TKSK_061423

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____

Overview:

Altronix Trove Keri Systems kits are pre-assembled and consist of Trove enclosures/backplanes with factory installed Altronix power supply/chargers and sub-assemblies. Both kits accommodate a variety of Keri Systems modules for up to eight (T2KSK3F8) or twelve (T2KSK7F12) doors in a single enclosure.

Configuration Chart:

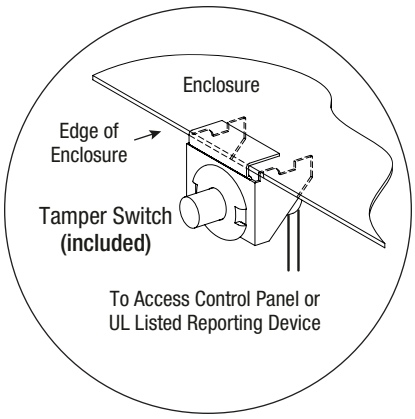
Altronix Model Number	120VAC 60Hz Input Current (A)	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	Maximum Supply Current for Main and Aux. Outputs on Power Supply board and ACMS8(CB)/ ACM4(CB) Access Power Controllers' outputs	Nominal DC Output Voltage [DC] Output Range (VDC)	Nominal DC Output Voltage [Aux] Output Range (VDC)	Fail-Safe/Fail-Secure Outputs	Additional Fused (PTC) Outputs	ACMS8(CB) Board Input Fuse (PTC) Rating	ACMS8(CB) Board Output Fuse (PTC) Rating	PDS8(CB) Board Input Fuse (PTC) Rating	PDS8(CB) Board Output Fuse (PTC) Rating	ACM4(CB) Board Input Fuse (PTC) Rating	ACM4(CB) Board Output Fuse (PTC) Rating
T2KSK3F8	3.5	5A/ 250V	15A/ 32V	24VDC @ 5.7A	20.17-26.4	20.28-26.4	8	8	15A/ 32V	3A/ 32V	10A/ 32V	3A/ 32V	–	–
T2KSK3F8D	3.5	5A/ 250V	15A/ 32V	24VDC @ 5.7A	20.17-26.4	20.28-26.4	8	8	9A	2.5A	9A	2.5A	–	–
T2KSK7F12	4.5	6.3A/ 250V	15A/ 32V	24VDC @ 9.4A	20.17-26.4	20.28-26.4	12	8	15A/ 32V	3A/ 32V	10A/ 32V	3A/ 32V	10A/ 32V	3A/ 32V
T2KSK7F12D	4.5	6.3A/ 250V	15A/ 32V	24VDC @ 9.4A	20.17-26.4	20.28-26.4	12	8	9A	2.5A	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 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 three holes. Remove the enclosure. Drill the lower holes and install the three fasteners. Place the enclosure's upper keyholes over the two/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.

Fig. 1



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 Keri Systems boards to backplane, refer to *pages 3, 4.*
7. Refer to the *eFlow Power Supply/Charger Installation Guide* for eFlow6NB and eFlow104NB and corresponding *Sub-Assembly Installation Guides* for ACMS8(CB), PDS8(CB), VR6 and ACM4(CB) for further installation instructions.

Hardware:

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

T2KSK3F8(D): Installation Instructions for Keri Systems Access Controllers

1. Fasten spacers (provided) into pem configuration (A) or (B) of backplane *(Fig. 2, pg. 3)*.
2. Mount boards to spacers utilizing 5/16" pan head screws (provided) *(Fig. 2a, pg. 3)*.
   Note: Keri Systems NXT-2D-MSCNE and NXT-4D-MSCNE boards have one (1) RJ45 jack each. Please make sure that they are mounted correctly, as shown in *Fig. 2* below.
3. Mount backplane to enclosure with hardware.
   If use of NXTWI or NXTRM3 expansion boards is desired, there is no need to remove NXT-2D-MSCNE, NXT-4D-MSCNE or NXT-4X4NE from the TKS2.

Keri Systems Access Controller Position Chart for the Following Models:

Keri Systems Board	Pem Mounting
NXT-2D-MSCNE, NXT-4D-MSCNE	(A)
NXT-4X4NE	(B)

Fig. 2

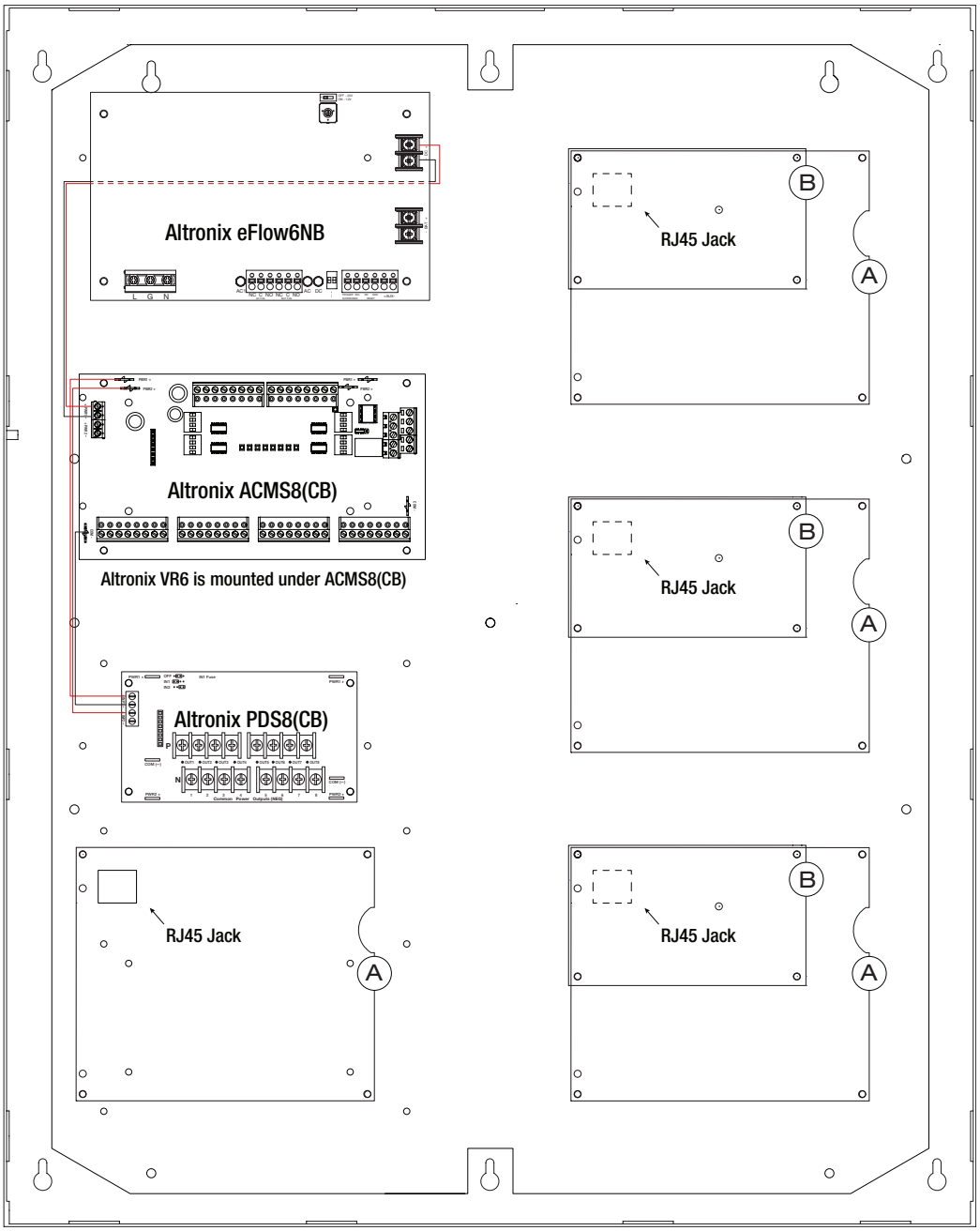
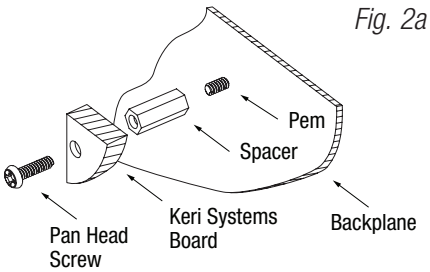


Fig. 2a



T2KSK7F12(D): Installation Instructions for Keri Systems Access Controllers

1. Fasten spacers (provided) into pem configuration (A) or (B) of backplane *(Fig. 3, pg. 4)*.
2. Mount boards to spacers utilizing 5/16" pan head screws (provided) *(Fig. 3a, pg. 4)*.
   Note: Keri Systems NXT-2D-MSCNE and NXT-4D-MSCNE boards have one (1) RJ45 jack each. Please make sure that they are mounted correctly, as shown in *Fig. 3* below.
3. Mount backplane to enclosure with hardware.
   If use of NXTWI or NXTRM3 expansion boards is desired, there is no need to remove NXT-2D-MSCNE, NXT-4D-MSCNE or NXT-4X4NE from the TKS2.

Keri Systems Access Controller Position Chart for the Following Models:

Keri Systems Board	Pem Mounting
NXT-2D-MSCNE, NXT-4D-MSCNE	(A)
NXT-4X4NE	(B)

Fig. 3

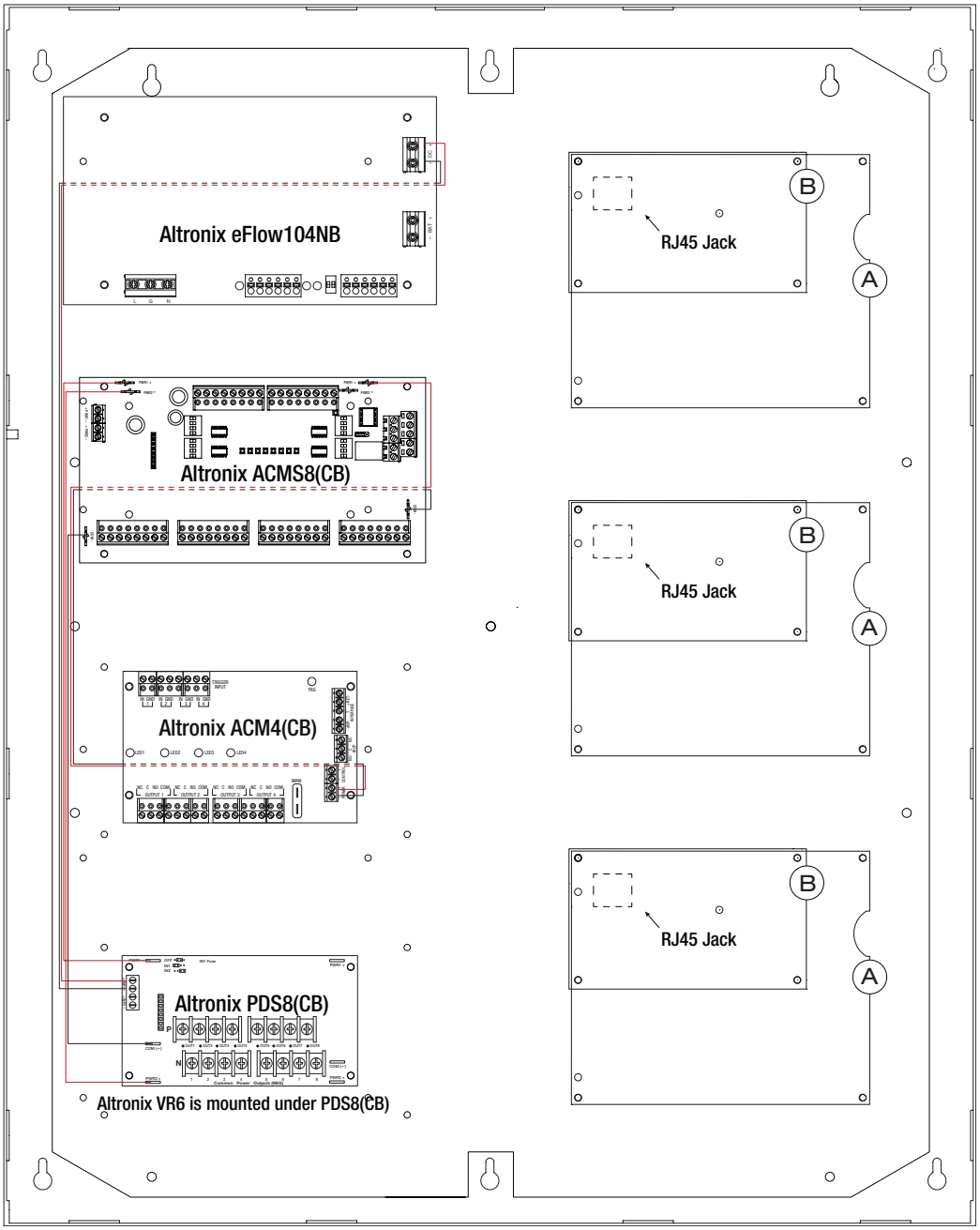
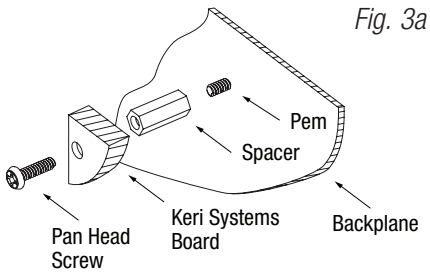


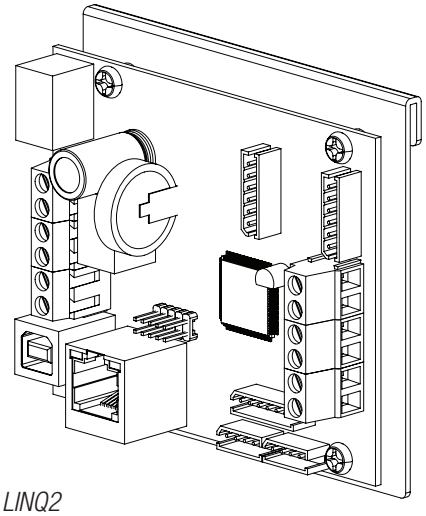
Fig. 3a



Notes:

Notes:

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



LINQ2

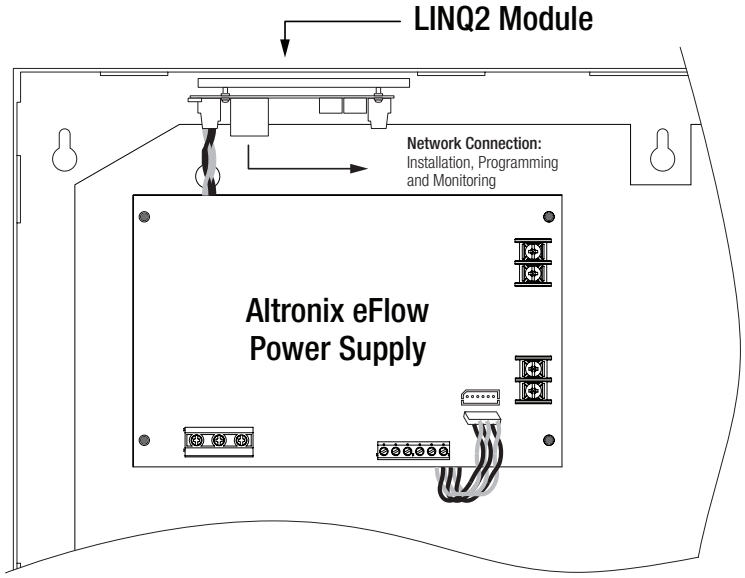
LINQ2 - Network Communication Module

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:

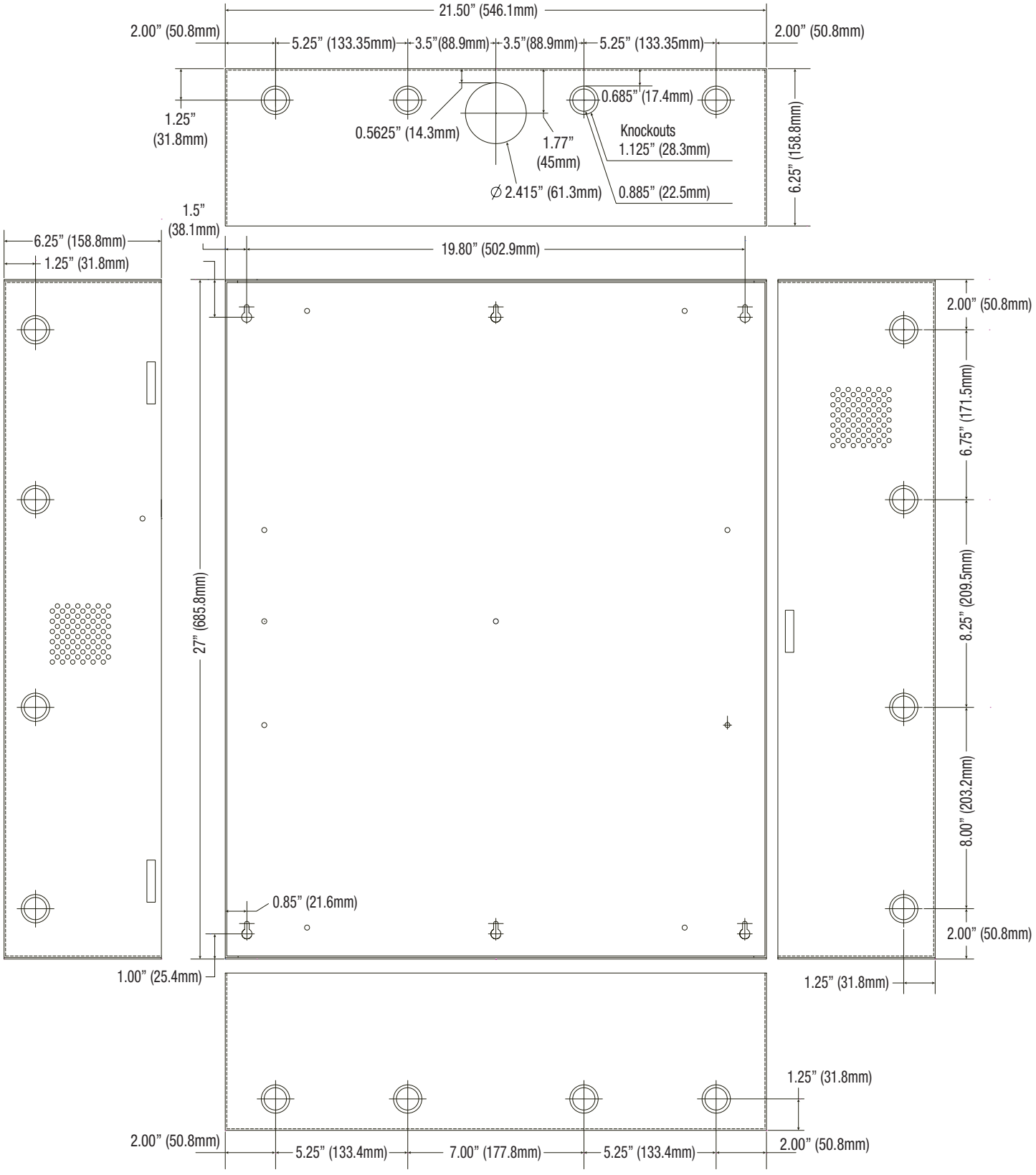
- UL Listed in the U.S. and Canada.
- Local or remote control of up to (2) two Altronix eFlow power output(s) via LAN and/or WAN.
- Monitor real time diagnostics: DC output voltage, output current, AC & battery status/service, input trigger state change, output state change and unit temperature.
- Access 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



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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