

Access & Power Integration

## Altronix/Mercury Wired Networked Kits

### Models Include:

#### T2M7XK1Q2

8 Door Kit with Fused Outputs  
Accommodates one (1) Intelligent Dual Reader Controller and three (3) Dual Reader Interface Modules.

#### T2M7XK2Q2

6 Door Kit with Fused Outputs  
Accommodates one (1) Intelligent Controller and three (3) Dual Reader Interface Module.

#### T2M7XK3Q2

8 Door Kit with Fused Outputs  
Accommodates up to four (4) Dual Reader Interface Modules.

##### Each fully assembled kit includes:

- Trove2 enclosure with TM2 Altronix/Mercury backplane
- One (1) eFlow104NB - Power Supply/Charger
- One (1) LINQ2 - Network Communication Module
- One (1) ACMS8 - Dual Input/Output Fuse Protected Access Power Controller
- One (1) VR6 - Voltage Regulator
- One (1) PDS8 - Dual Input/Output Fuse Protected Power Distribution Module
- One (1) RSB1 - Rocker Switch Bracket with One (1) Rocker Switch (Not evaluated by UL)
- Wire harnesses and finger duct

#### T2M7XK1DQ2

8 Door Kit with PTC Outputs  
Accommodates one (1) Intelligent Dual Reader Controller and three (3) Dual Reader Interface Modules.

#### T2M7XK2DQ2

6 Door Kit with PTC Outputs  
Accommodates one (1) Intelligent Controller and three (3) Dual Reader Interface Module.

#### T2M7XK3DQ2

8 Door Kit with PTC Outputs  
Accommodates up to four (4) Dual Reader Interface Modules.

##### Each fully assembled kit includes:

- Trove2 enclosure with TM2 Altronix/Mercury backplane
- One (1) eFlow104NB - Power Supply/Charger
- One (1) LINQ2 - Network Communication Module
- One (1) ACMS8CB - Dual Input/Output PTC Protected Access Power Controller
- One (1) VR6 - Voltage Regulator
- One (1) PDS8CB - Dual Input/Output PTC Protected Power Distribution Module
- One (1) RSB1 - Rocker Switch Bracket with One (1) Rocker Switch (Not evaluated by UL)
- Wire harnesses and finger duct

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



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Rev. 111224

Installing Company: \_\_\_\_\_ Service Rep. Name: \_\_\_\_\_

Address: \_\_\_\_\_ Phone #: \_\_\_\_\_



More than just power.™

## Overview:

Altronix Trove Plus kits are pre-wired, pre-assembled and consist of Trove2M2 enclosure/backplane with factory installed Altronix power supply/charger and sub-assemblies, wire harnesses and finger duct.

## 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 ACMS8(CB) Access Power Controller's outputs	Fail-Safe/Fail-Secure or Dry Form "C" Outputs	Current Per ACMS8(CB) and PDS8(CB) Output (A)	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
				[DC]	[Aux]							
				Output Range (VDC)	Output Range (VDC)							
T2M7XK1Q2	4.5	6.3A/ 250V	15A/ 32V	20.17- 26.4	20.28- 26.4	24VDC @ 9.4A	8	2.5	15A/ 32V	3A/ 32V	10A/ 32V	3A/ 32V
T2M7XK2Q2												
T2M7XK3Q2												
T2M7XK1DQ2												
T2M7XK2DQ2												
T2M7XK3DQ2												
								2.0	9A	2.5A	9A	2.5A

## Hardware and Accessories:

- One (1) tamper switch (Altronix Model TS112 or equivalent).
- Cam lock.
- Battery leads.

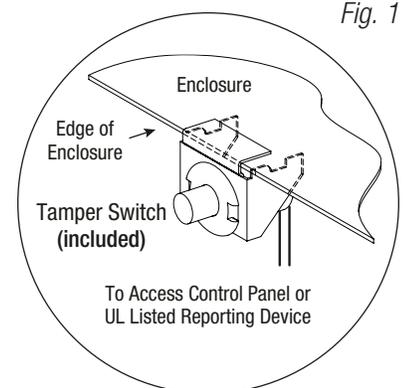
## Mechanical:

- 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).

## 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 (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. Refer to the *eFlow Power Supply/Charger Installation Guide* for eFlow104NB and corresponding *Sub-Assembly Installation Guides* for ACMS8(CB), PDS8(CB), VR6 and LINQ2 for further installation instructions.
5. Position Mercury access controller modules over corresponding spacers and depress onto snap on spacers (*Fig. 2-4, pg. 3-5*).
6. Connect wire harnesses to Mercury access controller modules (*Fig. 2-4, pg. 3-5*).
7. Connect unswitched AC power (120VAC 60Hz) to RSB1. 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.**
8. Measure voltage before connecting devices. This helps avoiding potential damage.
9. Mount backplane to enclosure with hardware.



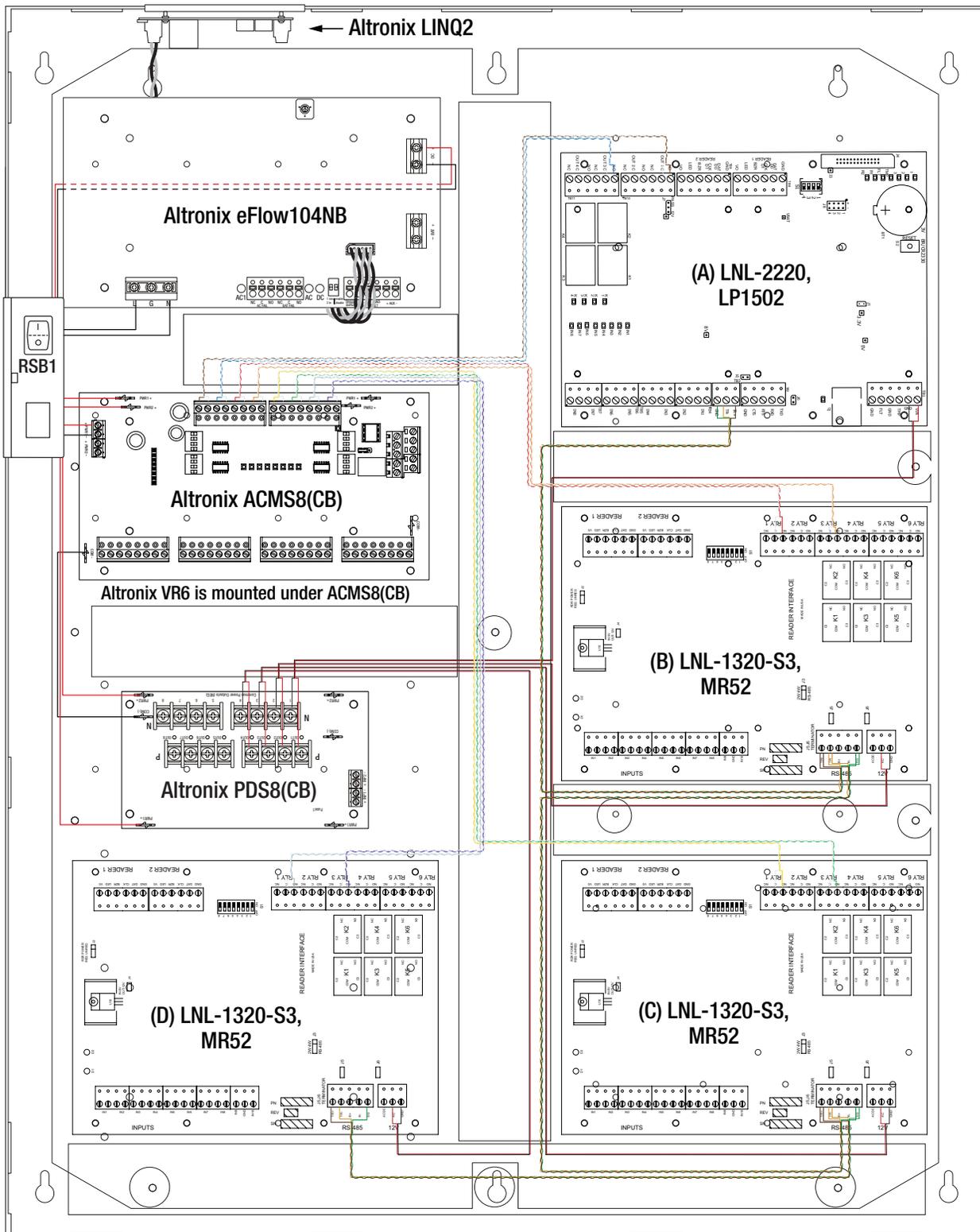
## T2M7XK1(D)Q2 Configuration:

1. Position access controller module over corresponding spacers and depress onto snap on spacers (Fig. 2, pg. 3).
2. Mount backplane to enclosure with hardware.

### Access Controller Position Chart for the Following Models:

LenelS2 / Mercury Access Controller	Pem Mounting
LNL-2220 / LP1502	(A)
LNL-1320 / MR52	(B)

Fig. 2



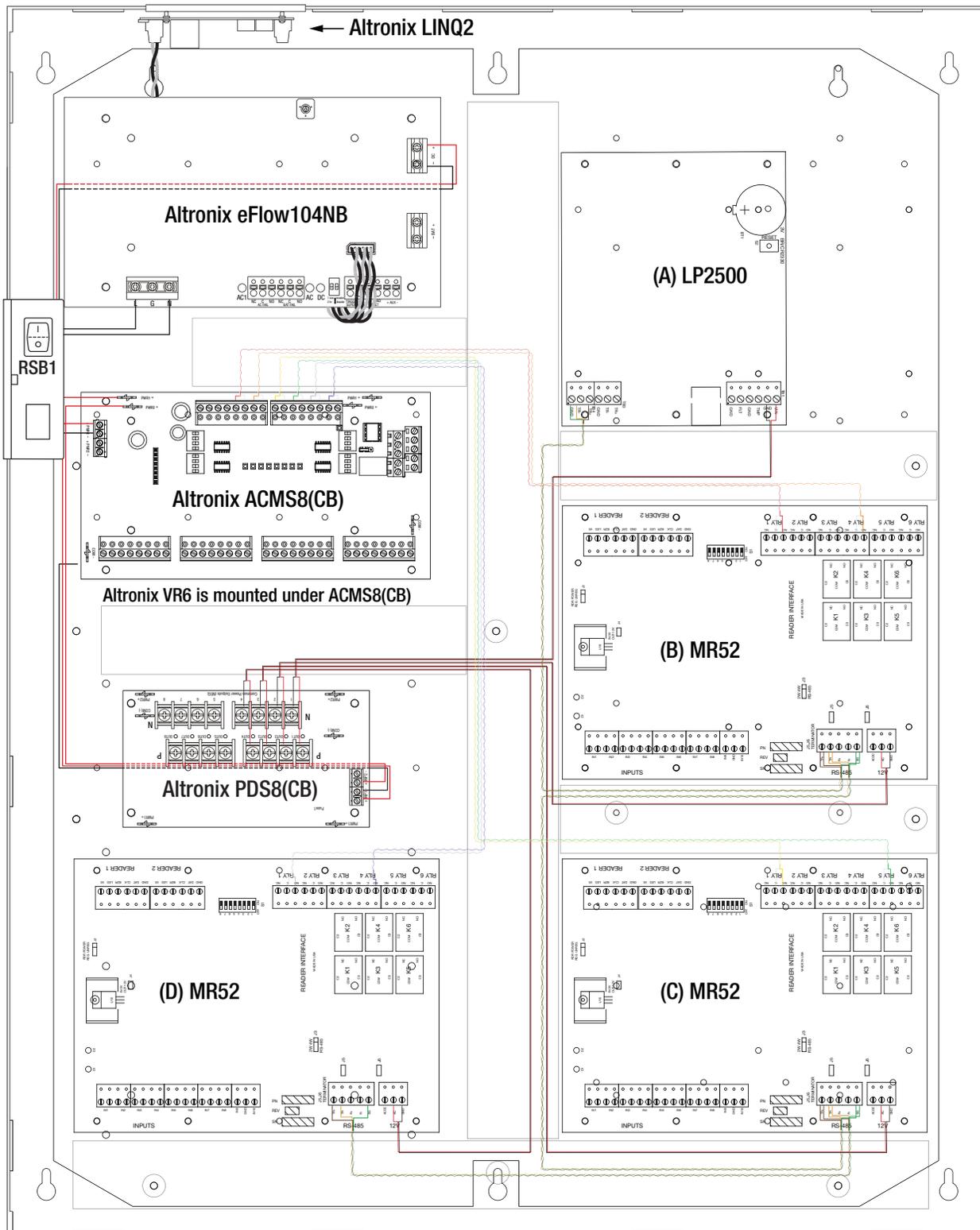
## T2M7XK2(D)Q2 Configuration:

1. Position access controller module over corresponding spacers and depress onto snap on spacers (Fig. 3, pg. 4).
2. Mount backplane to enclosure with hardware.

### Access Controller Position Chart for the Following Models:

LenelS2 / Mercury Access Controller	Pem Mounting
LNL-3300 / LP2500	(A)
LNL-1320 / MR52	(B) (C) (D)

Fig. 3



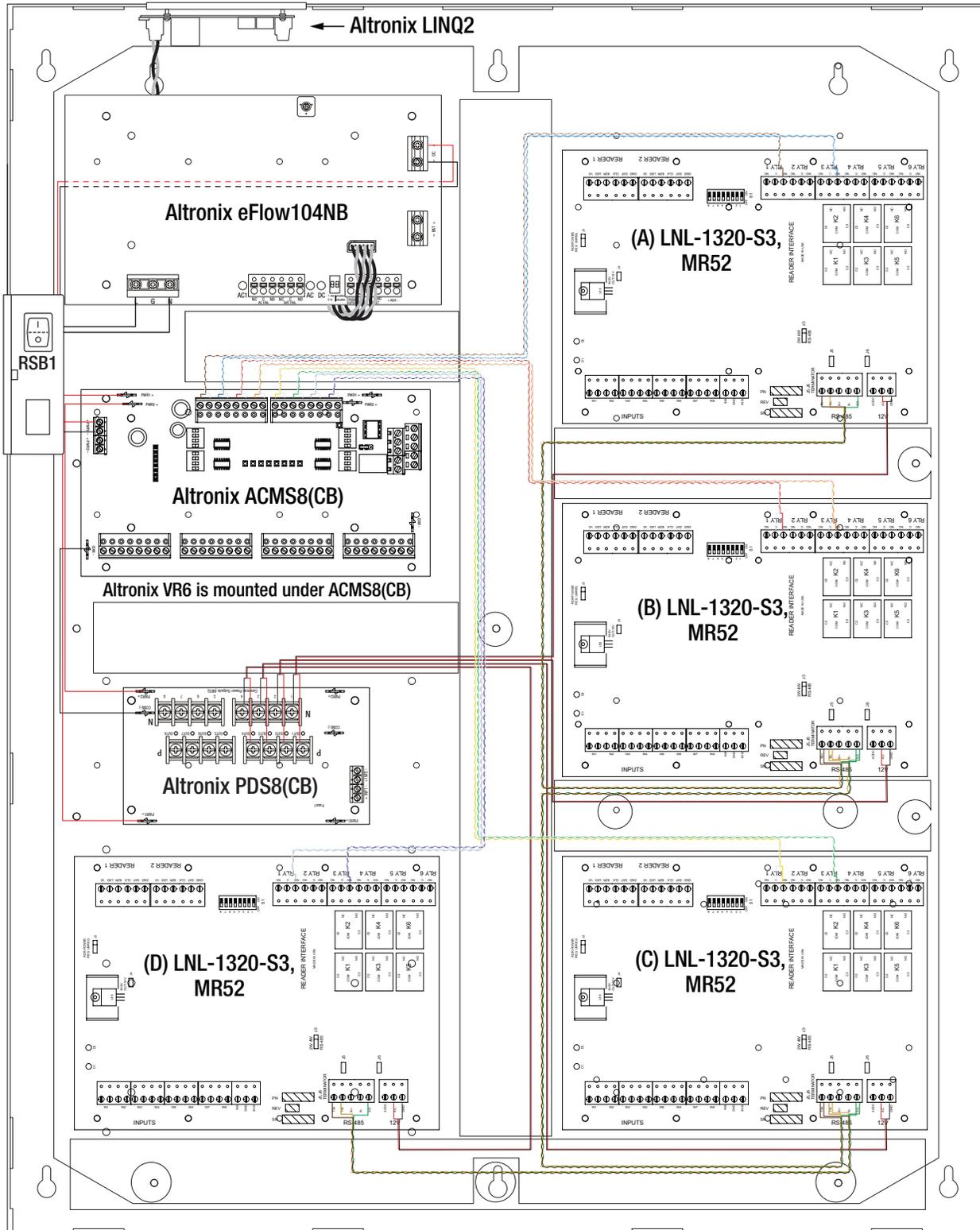
## T2M7XK3(D)Q2 Configuration:

1. Position access controller module over corresponding spacers and depress onto snap on spacers (Fig. 4, pg. 5).
2. Mount backplane to enclosure with hardware.

### Access Controller Position Chart for the Following Models:

LenelS2 / Mercury Access Controller	Pem Mounting
LNL-1320 / MR52	(A) (B) (C) (D)

Fig. 4

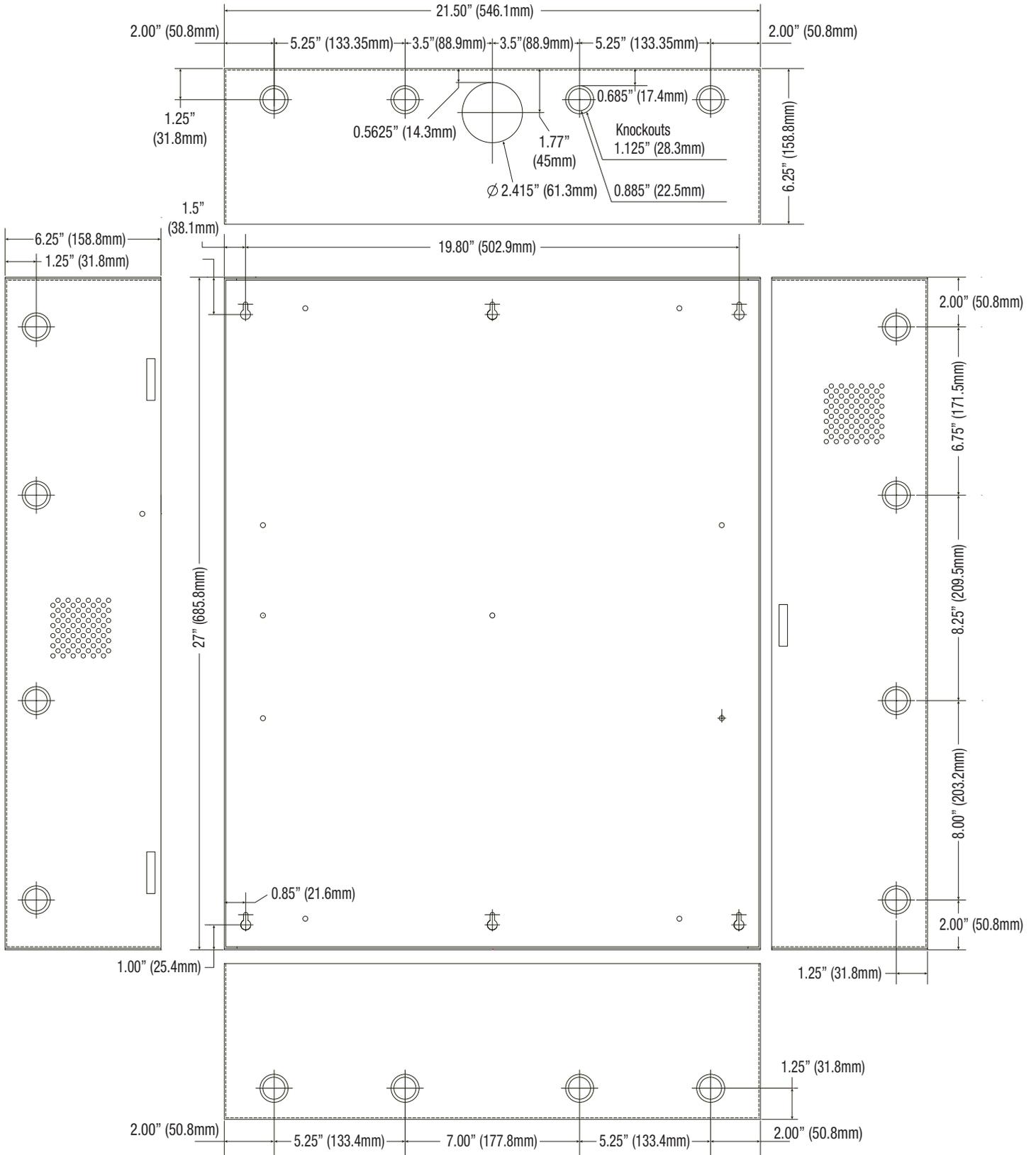


## Notes:

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

27.25" x 21.5" 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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 IIT2M7XKQ2 Kit Series

K12X

