

Access & Power Integration

## Altronix/Mercury Wired Kits

### Models Include:

#### T3MUC75LXK1

##### 16 Door Kit with Fused Outputs

Accommodates one (1) Intelligent Dual Reader Controller and seven (7) Dual Reader Interface Modules.

#### T3MUC75LXK3

##### 16 Door Kit with Fused Outputs

Accommodates eight (8) Dual Reader Interface Modules.

##### Each fully assembled kit includes:

- Trove3 enclosure with TM3 Altronix/Mercury backplane and TMV2 door backplane
- One (1) AL1024ULXB2 - Power Supply/Charger
- One (1) AL1012ULXB - Power Supply/Charger
- Two (2) ACM8 - Fuse Protected Access Power Controllers
- Two (2) PD8UL - Fuse Protected Power Distribution Modules
- One (1) PD16W - Fuse Protected Power Distribution Module
- One (1) LPD - Low Power Disconnect Module
- One (1) RSB2 - Rocker Switch Bracket with Two (2) Rocker Switches
- Wire harnesses and finger duct

#### T3MUC75LXK1D

##### 16 Door Kit with PTC Outputs

Accommodates one (1) Intelligent Dual Reader Controller and seven (7) Dual Reader Interface Modules.

#### T3MUC75LXK3D

##### 16 Door Kit with PTC Outputs

Accommodates eight (8) Dual Reader Interface Modules.

##### Each fully assembled kit includes:

- Trove3 enclosure with TM3 Altronix/Mercury backplane and TMV2 door backplane
- One (1) AL1024ULXB2 - Power Supply/Charger
- One (1) AL1012ULXB - Power Supply/Charger
- Two (2) ACM8CB - PTC Protected Access Power Controllers
- Two (2) PD8ULCB - PTC Protected Power Distribution Modules
- One (1) PD16WCB - PTC Protected Power Distribution Module
- One (1) LPD - Low Power Disconnect Module
- One (1) RSB2 - Rocker Switch Bracket with Two (2) Rocker Switches (
- Wire harnesses and finger duct

Please refer to the included corresponding Sub-Assembly Installation Guides for further information.

## Installation Guide



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Rev. T3MUC75LXK\_080525

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

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



## 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 management.

## Configuration Chart:

| Altronix Model Number | 115VAC 60Hz Input Current (A) | Power Supply Boards Input Fuse Rating | Nominal DC Output Voltage Range (VDC) |                | Maximum Supply Current for Main Outputs on Power Supply board and ACM8(CB) Access Power Controller's outputs | Fail-Safe/ Fail-Secure or Dry Form "C" Outputs | Current Per ACM8(CB), PD8UL(CB) and PD16W(CB) Output (A) | ACM8(CB) Board Input Fuse Rating | ACM8(CB), PD8UL(CB) and PD16W(CB) Board Output Fuse (PTC) Rating |
|-----------------------|-------------------------------|---------------------------------------|---------------------------------------|----------------|--------------------------------------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------|----------------------------------|------------------------------------------------------------------|
|                       |                               |                                       | Power Supply 1                        | Power Supply 2 |                                                                                                              |                                                |                                                          |                                  |                                                                  |
| T3MUC75LXK1           | 7.0                           | 5A/ 250V                              | 20.17- 26.4                           | 10.0- 13.2     | 24VDC @ 9.4A                                                                                                 | 16                                             | 2.5                                                      | 10A/250V                         | 3A/32V                                                           |
| T3MUC75LXKD           |                               |                                       |                                       |                |                                                                                                              |                                                | 2.0                                                      | 10A/250V                         | 2.5A                                                             |
| T3MUC75LXK3           |                               |                                       |                                       |                |                                                                                                              |                                                |                                                          |                                  |                                                                  |
| T3MUC75LXK3D          |                               |                                       |                                       |                |                                                                                                              |                                                |                                                          |                                  |                                                                  |

## Hardware and Accessories:

- Two (2) tamper switches (Altronix Model TS112 or equivalent).
- Cam lock.
- Battery leads.

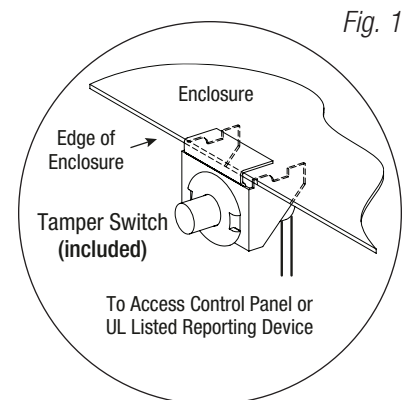
## Mechanical:

- 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 backplanes 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 *ULXB Power Supply/Charger Installation Guide* for AL1024ULXB2 and AL1012ULXB and corresponding *Sub-Assembly Installation Guides* for ACM8(CB), PD8UL(CB), PD16W(CB) and LPD for further installation instructions.
5. Connect unswitched AC power (115VAC 60Hz) to RSB2. 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 (115VAC 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.**
6. Measure voltage before connecting devices. This helps avoiding potential damage.
7. Position Mercury access controller modules over corresponding spacers and depress onto snap on spacers (*Fig. 2-4, pg. 3-5*).
8. Connect wire harnesses to Mercury access controller modules (*Fig. 2-4, pg. 3-5*).
9. Mount backplanes to enclosure with hardware.



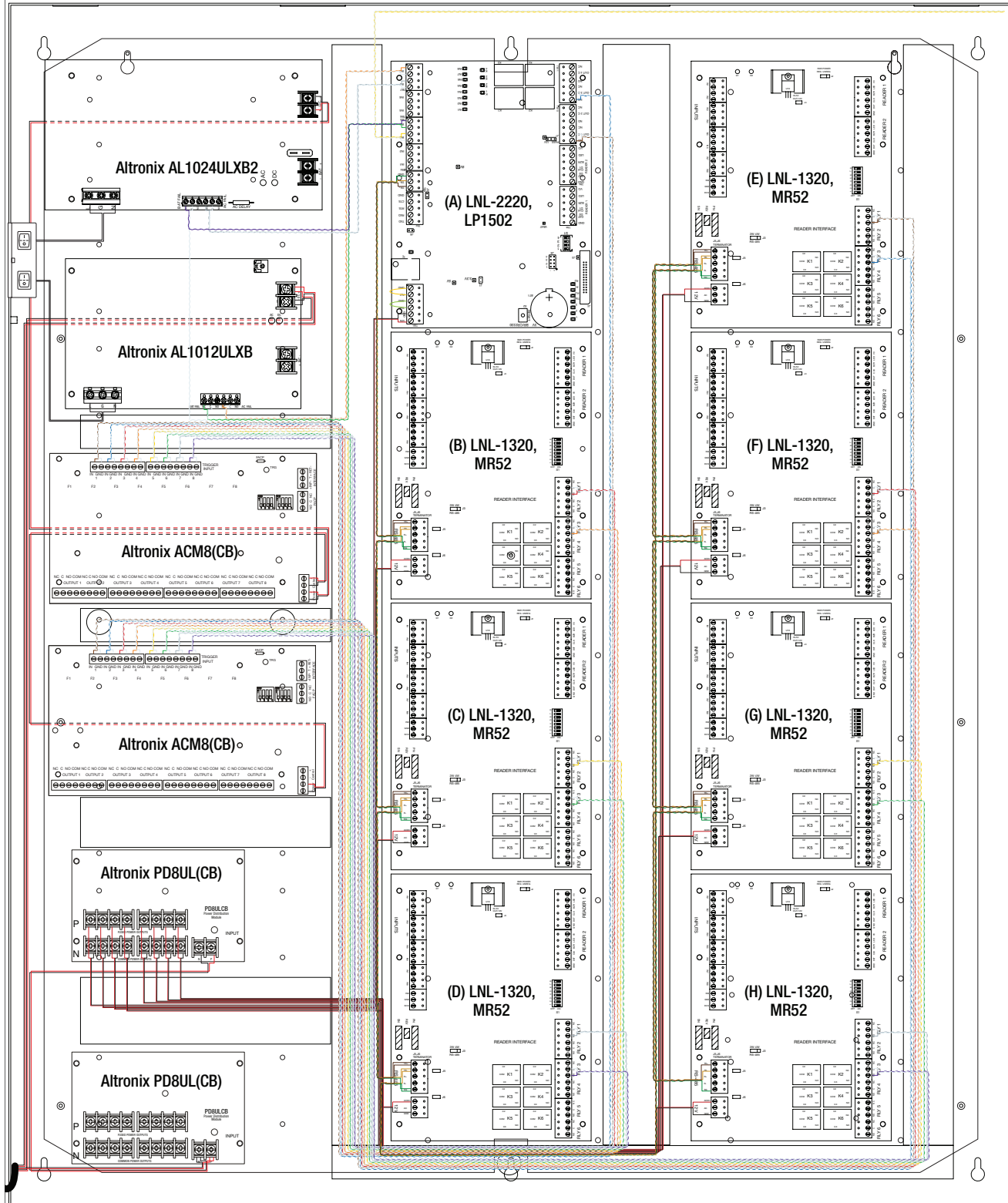
## T3MUC75LXK1(D) Configuration:

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-S3 / MR52                  | (B) (C) (D) (E) (F) (G) (H) |

Fig. 2



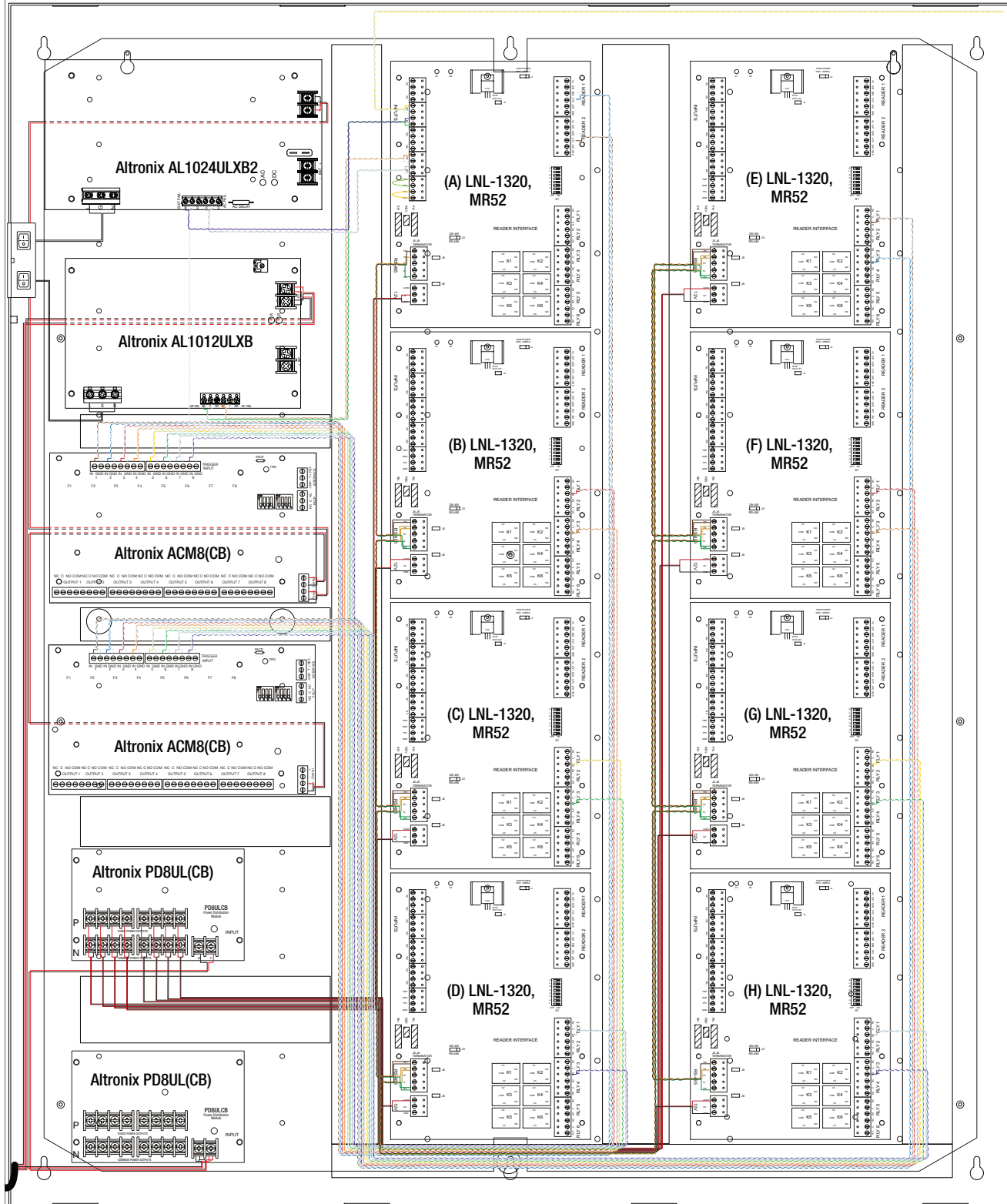
## T3MUC75LXK3(D) Configuration:

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-1320-S3 / MR52                  | (A) (B) (C) (D) (E) (F) (G) (H) |

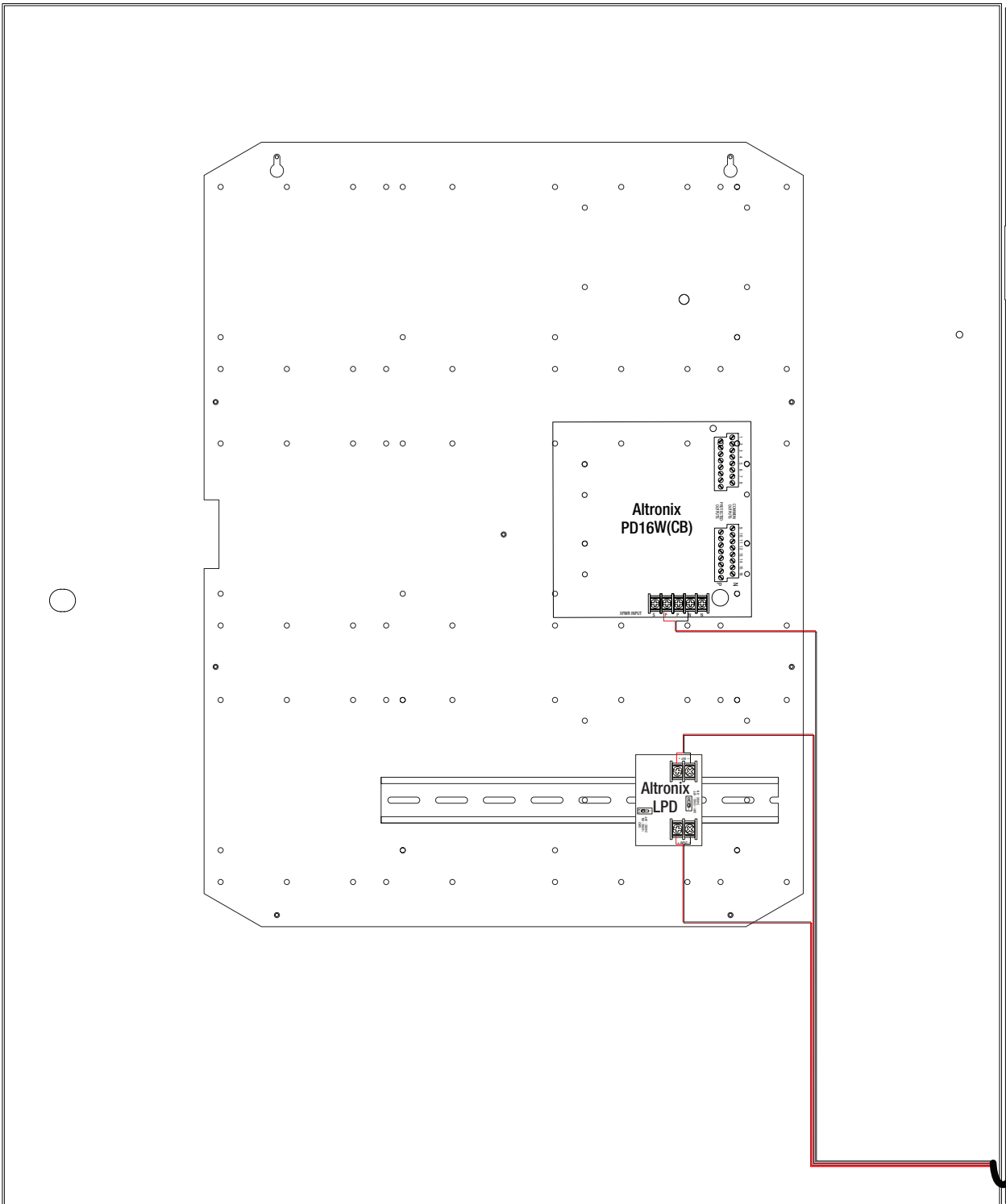
Fig. 3



## TMV2 (Door Backplane) 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.

Fig. 4



## Notes:

## Notes:

36.12" x 30.125" x 7.06" (917.5mm x 768.1mm x 179.3mm)

