

Access & Power Integration Solution for LiftMaster

Altronix T3LMK77F16N kit consists of Trove3 enclosure and TM3 Altronix & LiftMaster backplane with two (2) 24VDC @ 10A power supply/chargers, two (2) 12VDC voltage regulators, two (2) eight (8) fuse protected output dual voltage power distribution modules, two (2) eight (8) dual voltage fuse protected output access control modules and two (2) 5-Port Hardened PoE+ Switches. This kit also accommodates up to eight (8) LiftMaster Smart Access 2-Door Controller (CAP2D) for up to sixteen (16) doors in a single enclosure. Four (4) LMBK2 mounting brackets for LiftMaster CAP2D are factory installed. Trove simplifies board layout and wire management, reduces installation time and labor costs.









LiftMaster boards are not included

Key Features

- 24VDC power supply/charger
- Accommodates up to eight (8) LiftMaster Smart Access 2-Door Controller (CAP2D)
- Convenient knockout configuration:
 - One (1) single knockout 2.415" (2" Conduit)
- Sixteen (16) double knockouts
 1.362" (1" Conduit) / 1.115" (3/4" Conduit)
- 16 AWG galvanized steel backplane simplifies board layout and wire management

- Enclosure accommodates up to four (4) 12VDC/12AH batteries
- Supervision
 - AC Fail
 - Low Battery and Battery Presence
 - Low power shutdown
- CE European Conformity
- Lifetime Warranty*

^{*}Altronix Power Supply/Chargers and Sub-Assemblies only



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Specifications -

Two (2) Power Supply/Chargers (eFlow104NTB):

Input

Voltage 120VAC, 60Hz. 4.5A

Input Fuse 6.3A/250V

Output

Voltage 24VDC

Current 10A continuous Auxiliary 1A (unswitched)

Other Overvoltage protection. Filtered and regulated

Battery Charging

Capacity 12VDC/12AH (4 within enclosure)

40AH/65AH (requires separate enclosure)

Type Sealed lead acid or gel type Failover Upon AC loss, instantaneous

Batteries are sold separately

Supervision

AC Failure Form "C" contacts
Battery Form "C" contacts

Low DC Power Shutdown

Shuts down DC output terminals if battery voltage drops below 70-75% for 24V units (depending on the power supply)

Prevents deep battery discharge

Indicators (LED)

Input 120VAC is present

DC Output Powered

Battery Discharged or not connected

Two (2) Dual Input Access Power Controllers (ACMS8):

Input

Voltage 24VDC from eFlow104NTB and 12VDC from VR6

Input Fuses 15A/32V

Outputs

Voltage 12 or 24VDC individually selectable Eight (8) selectable 12VDC - 24VDC independently controlled outputs or eight (8) indepently controlled Form "C" relay outputs:

a) Fail-Safe and/or Fail-Secure power outputs b) Form "C" Relays. 28VAC or VDC @ 2.5A Rated

c) Auxiliary power outputs (unswitched)

d) Any combination of the above

Any of the eight (8) fuse protected power outputs are selectable

to follow power Input 1 or Input 2

Individual outputs may be set to OFF position for servicing

Output Fuses 3A/32V

Indicators (LED)

Red LEDs Outputs are triggered (relays energized)

Blue LED FACP disconnect is triggered

Individual voltage LEDs:
Green: 12VDC
Red: 24VDC

Two (2) Voltage Regulators (VR6):

Input

Voltage 24VDC from eFlow104NTB

Output

Voltage 12VDC
Current 6A continuous
Other Surge suppression

Indicators (LED)

Input 24VDC is present

Output Powered

Two (2) Dual Input Power Distribution Modules (PDS8):

Input

Voltage 24VDC from eFlow104NTB and 12VDC from VR6

Input Fuses 10A/32V

Outputs

Voltage 12VDC and/or 24VDC Any of the eight (8) power outputs are selectable

to follow power Input 1 or Input 2

Individual outputs may be set to OFF position for servicing

Output Fuses 3A/32V

Indicators (LED)

DC Output Eight (8) individual output LEDs

Green: 12VDC Red: 24VDC

Two (2) PoE+ Hardened Switches (NetWay5P):

Input Power 24VDC from eFlow104NTB

Power Output

Maximum Power Four (4) 10/100/1000 Mbps

PoE/PoE+ (rated up to 30W) ports

60W (at 12VDC) or 120W (at 24VDC) total power

Integral surge protection

Uplink Port Single data port

Ethernet Ports

Five (5) 10/100/1000 Mbps ports Connectivity: RJ45, auto-crossover

Wire type: 4-pair CAT5e or higher structured cable

Distance: up to 100m

Speed: 10/100/1000 Mbps, half/full duplex, auto negotiation

Indicators (LED)

Individual PoE On LEDs for each port

Individual IP Link status, 10/100Base-T/active LEDs for each port

T3LMK77F16N Kit:

Agency Listings

CE European Conformity

Physical and Environmental

Dimensions (H x W x D) Enclosure: 27.25" x 21.5" x 6.5" (692.2mm x 546.1mm x 165.1mm) Shipping: 32.5" x 26.5" x 11.125" (825.5mm x 673.1mm x 282.6mm)

Weight (approx.)

Product 40.1 lb. (18.2 kg) Shipping 43.85 lb. (19.9 kg)

Temperature

Operating 0°C to 49°C (32°F to 120°F) Storage - 20°C to 70°C (- 4°F to 158°F)

Relative Humidity 85% +/- 5% BTU/Hr (approx.): 145 BTU/Hr.



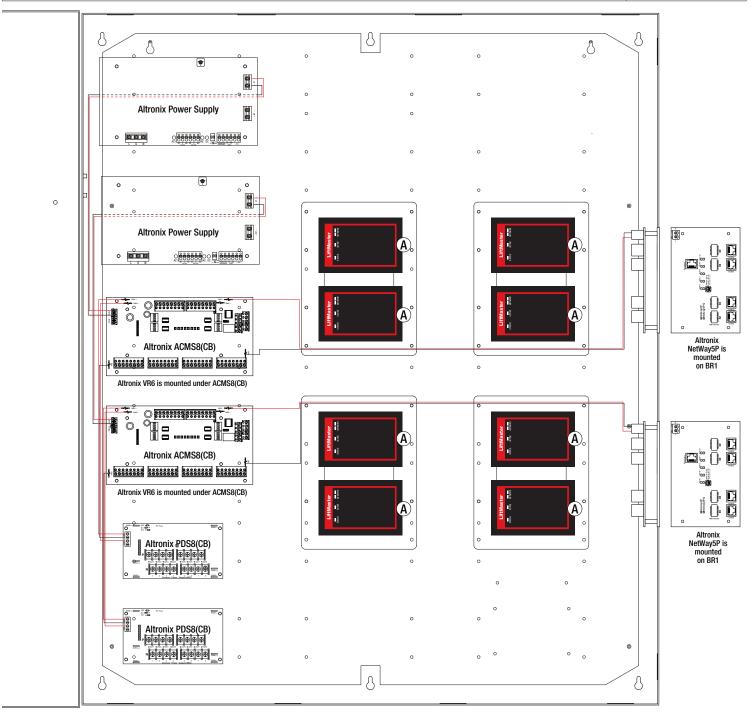
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Access Controller Position Chart for the Following Models:

| LiftMaster | Pem Mounting |
|---|--------------|
| LiftMaster Smart Access 2-Door Controller (CAP2D) | A |





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Accessories (order separately)



LINQ2 - Network Supervision

Altronix LINQ2 Network Communication Module provides remote supervision, control and monitoring over LAN/WAN

- Remotely reports accurate power diagnostics
- Controls power and resets devices
- Reports system diagnostics via Email



WM5, WM25, WM100 - Magnetic Cable Tie Mounts

Altronix WM5, WM25, and WM100 are packs of 5, 25 or 100 magnetic cable tie mounts respectively. They accommodate standard zip ties or velcro straps.

These are ideal for wire management in our Trove series.



MM4, MM8, MM12, MM24 - Magnetic Mounting Solution

Altronix mounting magnets accommodate screws and nylon standoffs to allow for mounting various boards/ accessories in any metal enclosure or backplane.



BR1 - Sub-Assembly Mounting Bracket

Altronix BR1 mounting bracket is compatible with Altronix Maximal and Trove enclosures. It allows to mount one (1) PD4UL(CB), PD8UL(CB), ACM4(CB), MOM5, VR6, PDS8, NetWay5B or LINQ8PD(CB) sub-assembly on the enclosure's inside wall, saving valuable space.





Typical battery/wiring setup with Trove3 Enclosure (not included)

TROVE3BWC / TROVE3SWC - Battery/Wire Trough Enclosure

Altronix Trove3BWC and Trove3SWC are dual-purpose enclosures that can be used as wiring troughs or battery cabinets when mounted above or below (Trove3BWC) or on either side (Trove3SWC) of the Trove integrated power and access solution. The knockouts on the Trove3BWC and Trove3SWC have been strategically placed to line up with the Trove3 allowing for easy conduit connections between cabinets. Trove3BWC and Trove3SWC include cam locks and 2 tamper switches each to ensure access to wiring and batteries is secure.



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Dimensions and Drawing -

Dimensions (H x W x D approximate)

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

