Altronix®

Rev. 07252024

T3LMK77F16N (Kit)

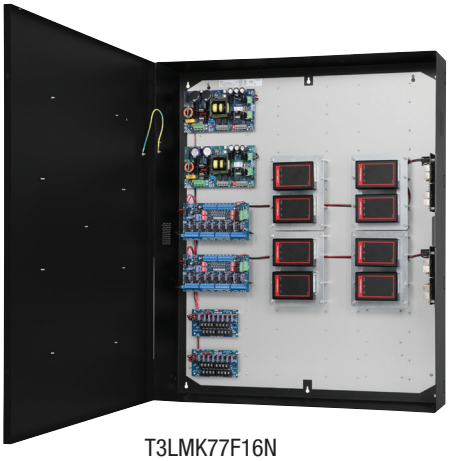
Access & Power Integration Solution for LiftMaster

TROVE™

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

POWERED BY myQ



T3LMK77F16N

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 gauge 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*

Altronix Corporation | 140 58th St | Brooklyn, NY 11220 USA
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Specifications

Two (2) Power Supply/Chargers (eFlow104NB):

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 eFlow104NB 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 eFlow104NB

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 eFlow104NB 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 eFlow104NB

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: 36.12" x 30.125" x 7.06" (917.5mm x 768.1mm x 179.3mm)
  - Shipping: 40.75" x 35.25" x 12" (1035.1mm x 895.4mm x 304.8mm)
- Weight (approx.)
  - Product: 85.6 lb. (38.83 kg)
  - Shipping: 98.8 lb. (44.82 kg)
- Temperature
  - Operating: 0ºC to 49ºC (32ºF to 120ºF)
  - Storage: – 20ºC to 70ºC (– 4ºF to 158ºF)
- Relative Humidity: 85% +/– 5%
- BTU/Hr (approx.): 145 BTU/Hr.

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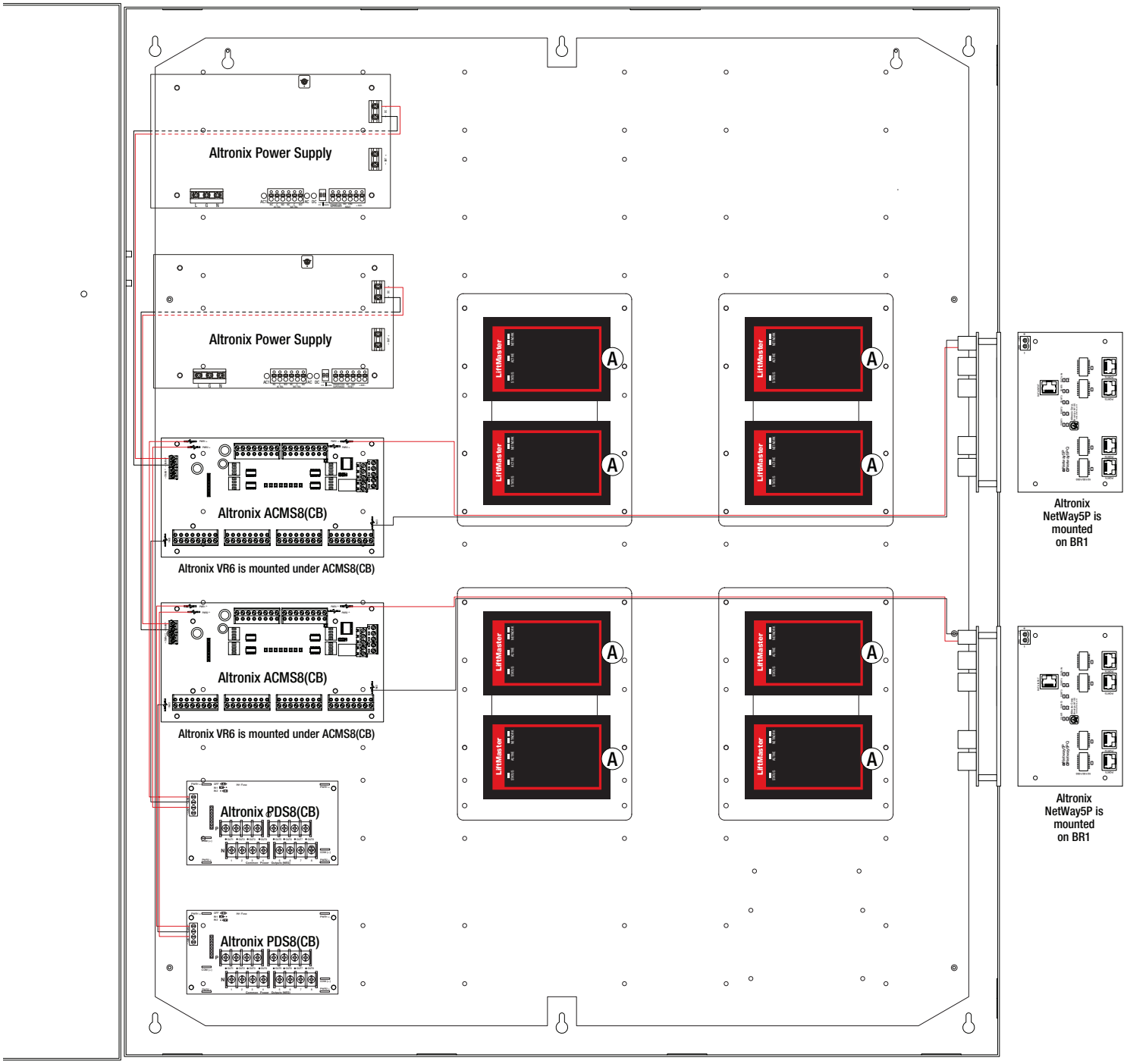
Access Controller Position Chart for the Following Models:

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



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Accessories (order separately)

LINQ2

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

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.

Mounting Magnet

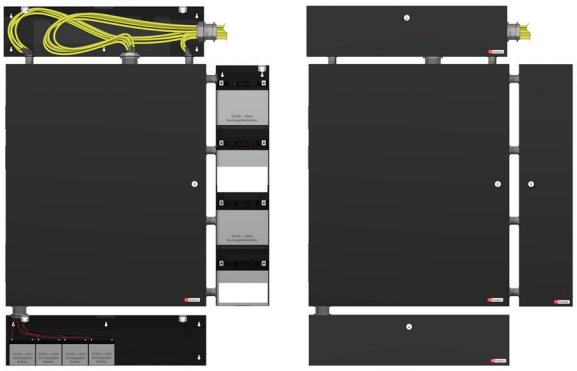
MM4, MM8, MM12, MM24 - Magnetic Mounting Solution

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

BR1

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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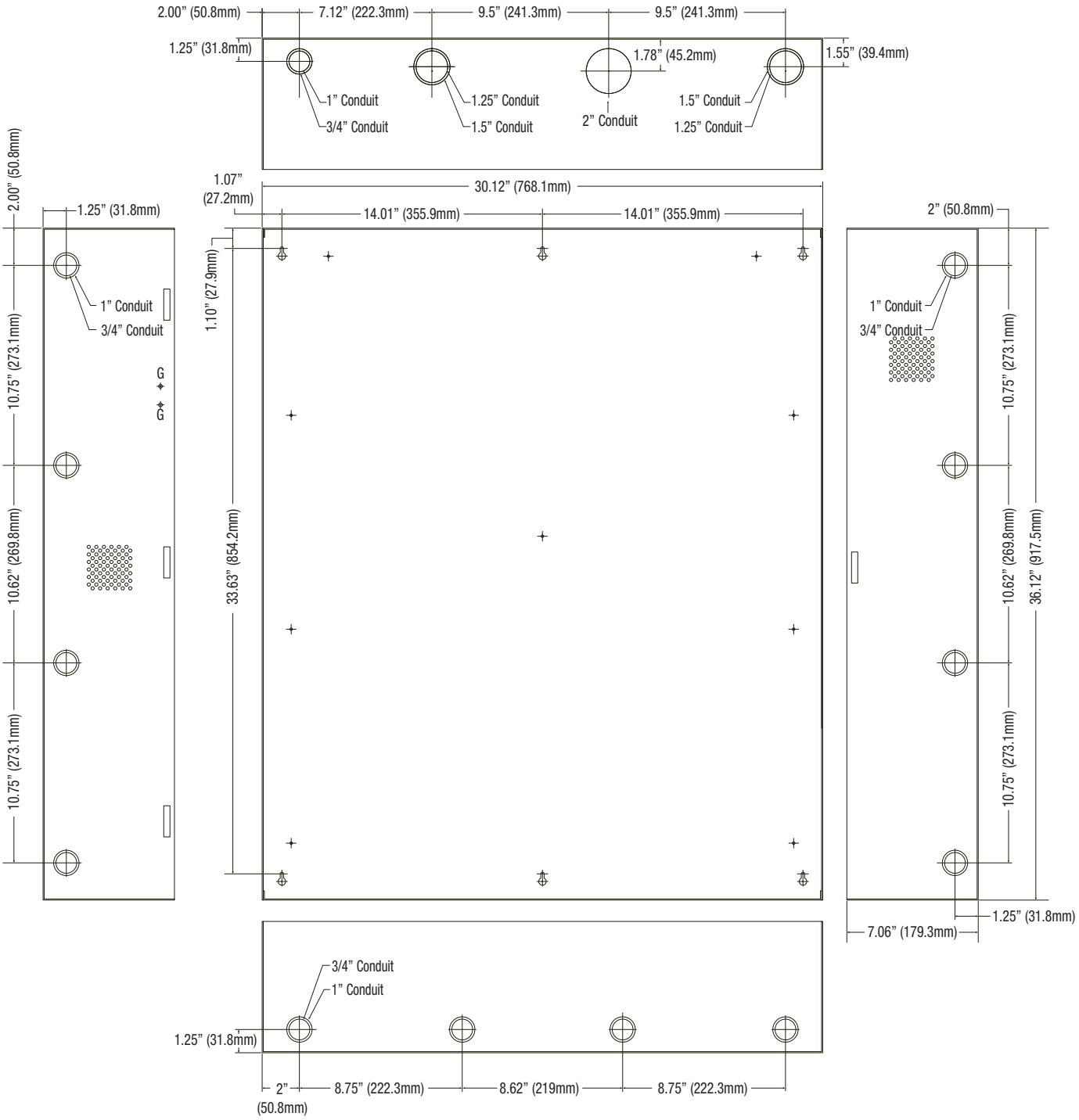
Dimensions and Drawing

Dimensions (H x W x D approximate)

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



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