

T3LMK77F16ND (Kit)

Access & Power Integration Solution for LiftMaster



Altronix T3LMK77F16ND 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) PTC protected output dual voltage power distribution modules, two (2) eight (8) dual voltage PTC 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.



T3LMK77F16ND

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*

Specifications

Two (2) Power Supply/Charger (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 (ACMS8CB):

Input	
Voltage	24VDC from eFlow104NTB and 12VDC from VR6
Input PTCs	9A
Outputs	
Voltage	24VDC

- Eight (8) 24VDC independently controlled PTC outputs
 - a) Fail-Safe and/or Fail-Secure power outputs
Form "C" Relays rated 28VAC or VDC @ 2.5A
 - b) Auxiliary power outputs (unswitched)
 - c) Any combination of the above

Output PTCs 2.5A

Indicators (LED)

Red LEDs	Outputs are triggered (relays energized)
Green LED	FACP disconnect is triggered

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 (PDS8CB):

Input	
Voltage	24VDC from eFlow104NTB and 12VDC from VR6
Input PTCs	9A
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 PTCs 2.5A

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

T3LMK77F16ND 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)

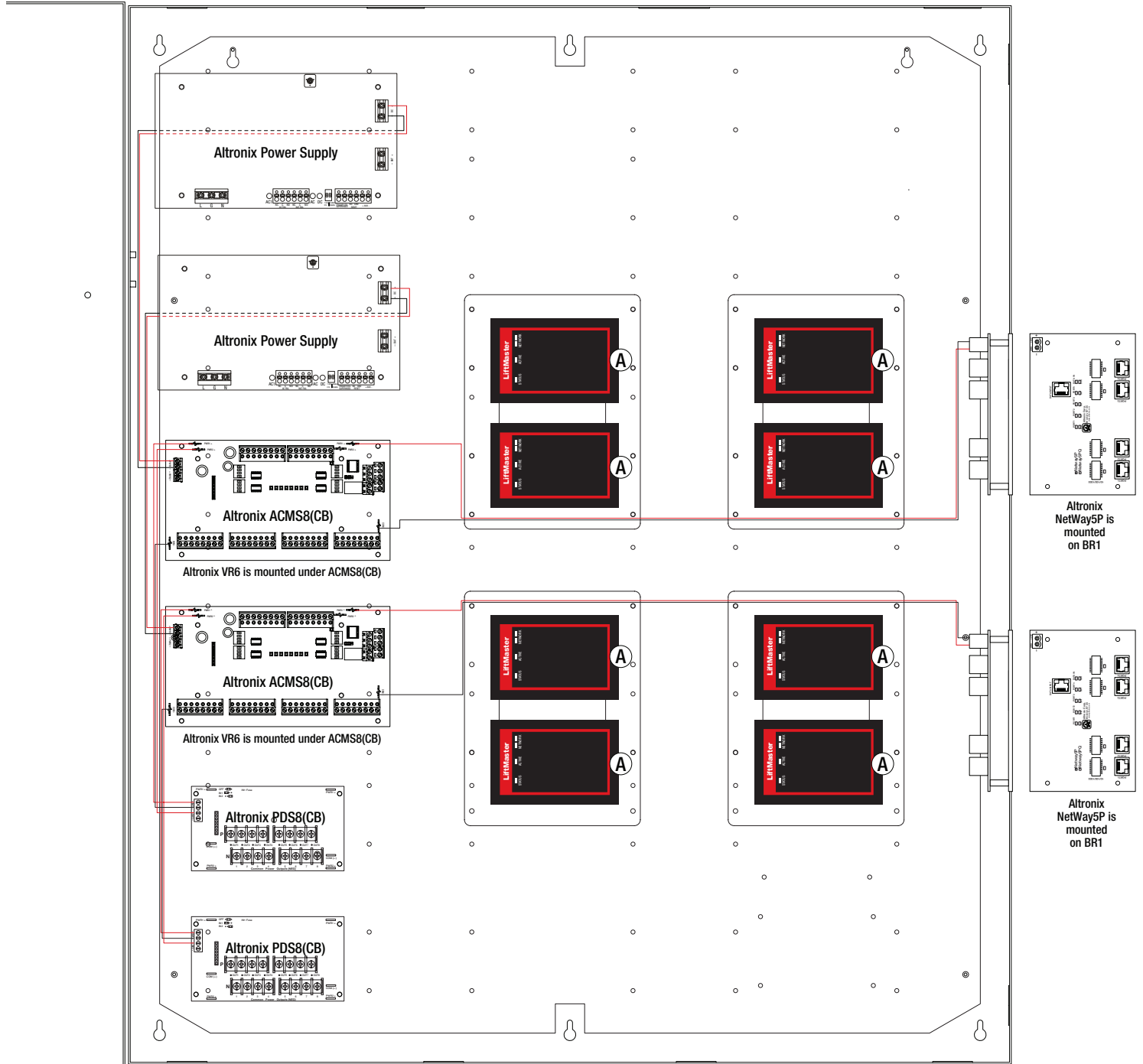
Temperature

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.

Access Controller Position Chart for the Following Models:

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



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

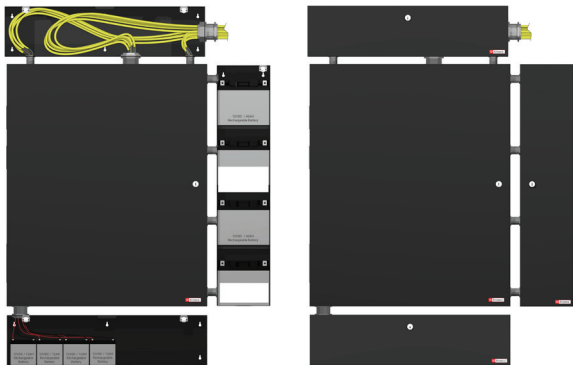
Altronix mounting magnets accommodate screws and nylon standoffs to allow for mounting various boards/ accessories in any metal enclosure or backplane.



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.



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.

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

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)

