# Altronix®

T3MK77F16DV (Kit)

Access & Power Integration Solution for Mercury

TR□VE™

Altronix T3MK77F16DV kit consists of Trove3 enclosure and TM3 Altronix & Mercury backplane with two 24VDC @ 10A power supply/chargers, two eight (8) PTC protected output access control modules and two eight (8) PTC protected output power distribution modules. This kit also accommodates various combinations of Mercury* boards for up to sixteen (16) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.

*Also compatible with these authentic Mercury partners:
AccessNsite, Avigilon, BadgePass, BluBox, Feenics, Genetec, Identicard, IMRON, Johnson Controls, Kastle, Keri Systems, Lenel/S2, LockState, Maxxess, Midpoint Security, NLSS, Open Options, Panasonic Video Insight, Quintron, RS2, Schneider Electric, Vanderbilt
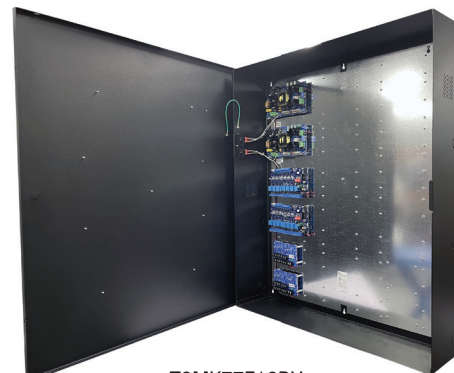
T3MK77F16DV

Mercury boards are not included

Mercury™

Key Features

- 24VDC power supply/chargers
- Accommodates the following Mercury controllers:
  Mercury: LP1501, LP1502, LP2500, LP4502, MR16IN, MR16OUT, MR50, MR52, MR62e, MUX8
- Convenient knockout configuration:
  - One (1) single knockout 2.415" (2" Conduit)
  - Two (2) double knockouts
    1.948" (1.5" Conduit) / 1.701" (1.25" Conduit)
  - Thirteen (13) 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 (eFlow104NBV):

Input

Voltage	220VAC (working range 198VAC - 256VAC), 50/60Hz, 2.7A
Input Fuse	6.3A/250V

Output

Voltage	24VDC @ 10A
Auxiliary	1A (unswitched)
Protection	Overvoltage protection. Filtered and regulated

Battery Charging

Capacity	12VDC/12AH (2 within enclosure)
	40AH/65AH (requires separate enclosure)
Type	Sealed lead acid or gel type
Failover	Upon AC loss, instantaneous
Batteries are sold separately	

Fire Alarm Disconnect

Supervised	Latching or non-latching
EOL	10K Resistor

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)

AC Input	220VAC is present
DC Output	Powered.
Battery	Discharged or not connected

Two (2) Power Distribution Modules (PD8ULCB):

Input

Voltage	24VDC from eFlow104NBV

Outputs

Voltage	24VDC
PTCs	2.5A

Indicators (LED)

Green LED	DC Output

Two (2) Access Power Controllers (ACM8CB):

Input

Voltage	24VDC from eFlow104NBV
Input Fuse	10A/250V

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

T3MK77F16DV 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.):	289 BTU/Hr.

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Access Controller Position Chart for the Following Models:

Altronix/Mercury	Pem Mounting
LP2500, MUX8	(A)
LP1502, LP4502, MR52, MR16IN, MR16OUT	(B)
LP1501, MR62e	(C)
MR50	(D)
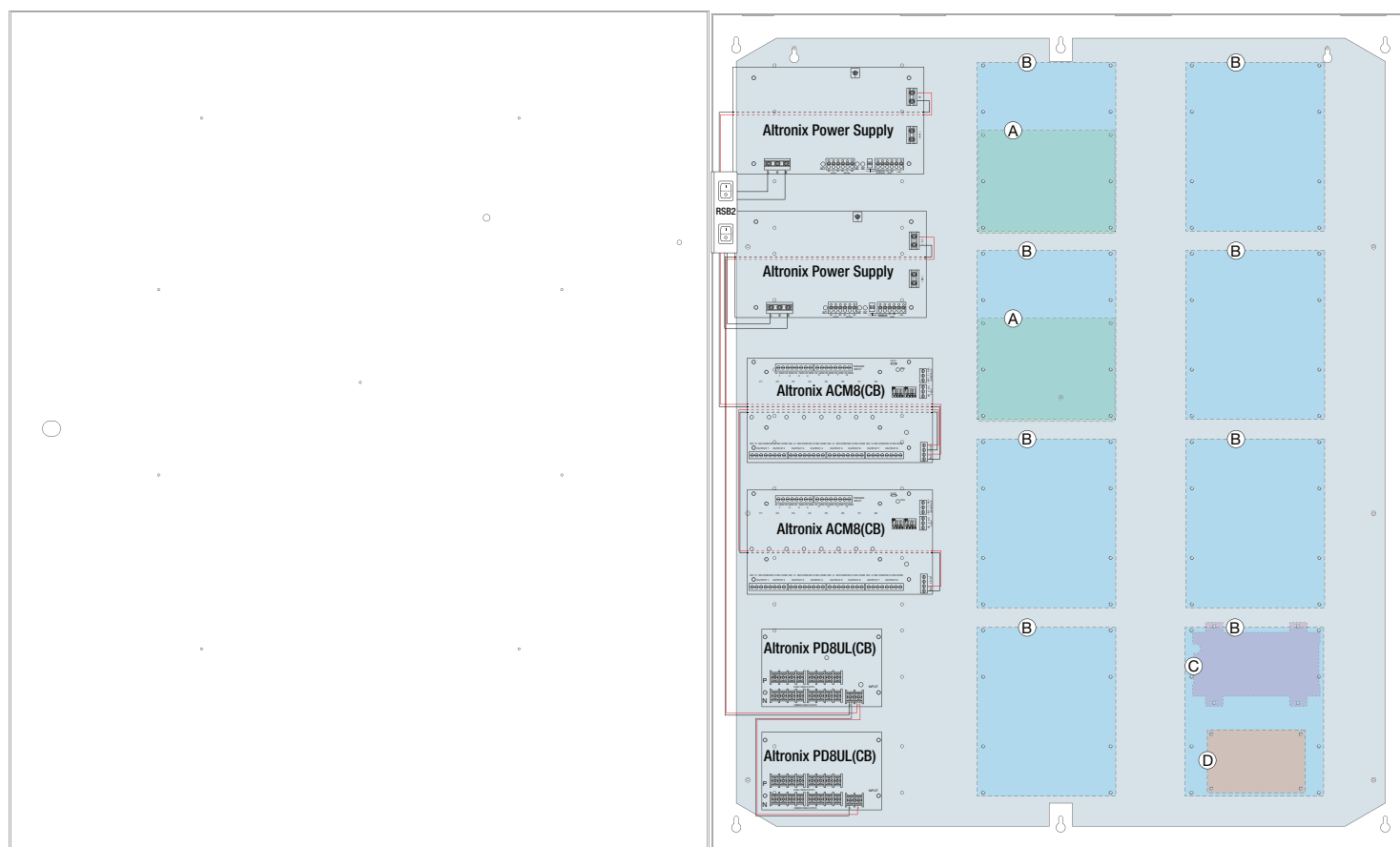
Accessories (order separately)

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

LINQ2

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.

WM5

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.

Mounting Magnet

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.

BR1
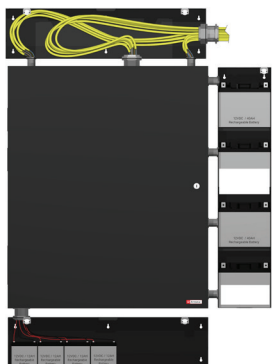
TROVE3BWC / TROVE3SWC - Battery/Wire Trough Enclosure
Altronix Trove3BWC and Trove3SWC are dual-purpose enclosures that can be used as wiring troughs or battery cabinets when mounted above or below (Trove3BWC) or on either side (Trove3SWC) of the Trove integrated power and access solution. The knockouts 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)

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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)

2.00" (50.8mm) — 7.12" (222.3mm) — 9.5" (241.3mm) — 9.5" (241.3mm)

1.25" (31.8mm)   1.78" (45.2mm)   1.55" (39.4mm)

1" Conduit   1.25" Conduit   1.5" Conduit
3/4" Conduit   1.5" Conduit   2" Conduit   1.25" Conduit

2.00" (50.8mm)

1.07" (27.2mm)   30.12" (768.1mm)

1.25" (31.8mm)   14.01" (355.9mm) — 14.01" (355.9mm)   2" (50.8mm)

1.10" (27.9mm)

1" Conduit
3/4" Conduit

10.75" (273.1mm)

G
G

10.62" (269.8mm)

1" Conduit
3/4" Conduit

10.75" (273.1mm)

33.63" (854.2mm)

10.75" (273.1mm)

10.62" (269.8mm)

36.12" (917.5mm)

1.25" (31.8mm)

7.06" (179.3mm)

3/4" Conduit
1" Conduit

1.25" (31.8mm)

2" (50.8mm) — 8.75" (222.3mm) — 8.62" (219mm) — 8.75" (222.3mm)