Altronix®

T3M77CK3 (Pre-wired Kit)
## Access and Power Integration Solution for Mercury

TROVE™ PLUS

Altronix T3M77CK3 is a 16-door access and power integration kit which includes Altronix power and sub-assemblies along with factory installed wire management and wire assemblies that are pre-configured with terminal blocks for Mercury* hardware. This unit provides ample power and dual voltage outputs to support Mercury platform controllers and locking devices. The T3M77CK3 accommodates eight (8) Dual Reader Interface Modules. Trove Plus simplifies field installations and provides reliable, robust critical power and control for the most demanding applications.

*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 i-PRO MonitorCast, Quintron, RS2, S2 Security, Schneider Electric, Vanderbilt
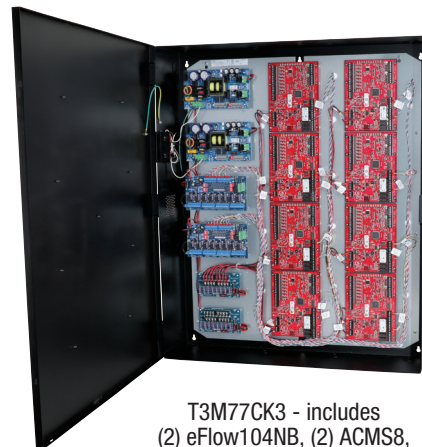
Mercury™

T3M77CK3 - includes
(2) eFlow104NB, (2) ACMS8,
(2) VR6, (2) PDS8,
wire harnesses and management

Mercury boards are not included

Key Features

- Accommodates the following Mercury controllers:
  8 - MR52

- 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)
- Unit includes:
  - Removable backplane
  - Wire management
  - Custom Wire Harnesses for power distribution
    and controller connections

- AC input and DC output LED indicators
- Supervision
  - AC Fail
  - Low Battery and Battery Presence
  - Low power shutdown
- Built-in charger for sealed lead acid or gel type batteries
- Instantaneous transfer to stand-by batteries
- 16 AWG galvanized steel backplane simplifies board layout and wire management
- Enclosure accommodates up to four (4) 12VDC/12AH batteries
- CE European Conformity
- Lifetime Warranty

*Altronix Power Supply/Chargers and Sub-Assemblies only

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Specifications

Two (2) Power Supplies (eFlow104NB):

Input

Voltage	120VAC, 60Hz, 9A max
Input Fuse	6.3A/250V

Output

Voltage	24VDC @ 10A
Auxiliary	1A (unswitched)
Protection	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	

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	120VAC is present
DC Output	24VDC is present
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

T3M77CK3 Kit:

Agency Listings

CE	European Conformity

All components of this Trove kit are UL Listed sub-assemblies
Please refer to the corresponding Sub-Assembly Installation Guides for further information

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.

Altronix Power Supply/Charger

Altronix Power Supply/Charger

Altronix ACMS8(CB)

Altronix VR6 is mounted under ACMS8(CB)

Altronix ACMS8(CB)

Altronix VR6 is mounted under ACMS8(CB)

Altronix PDS8(CB)

Altronix PDS8(CB)

(A) LNL-1320, MR52

(B) LNL-1320, MR52

(C) LNL-1320, MR52

(D) LNL-1320, MR52

(E) LNL-1320, MR52

(F) LNL-1320, MR52

(G) LNL-1320, MR52

(H) LNL-1320, MR52
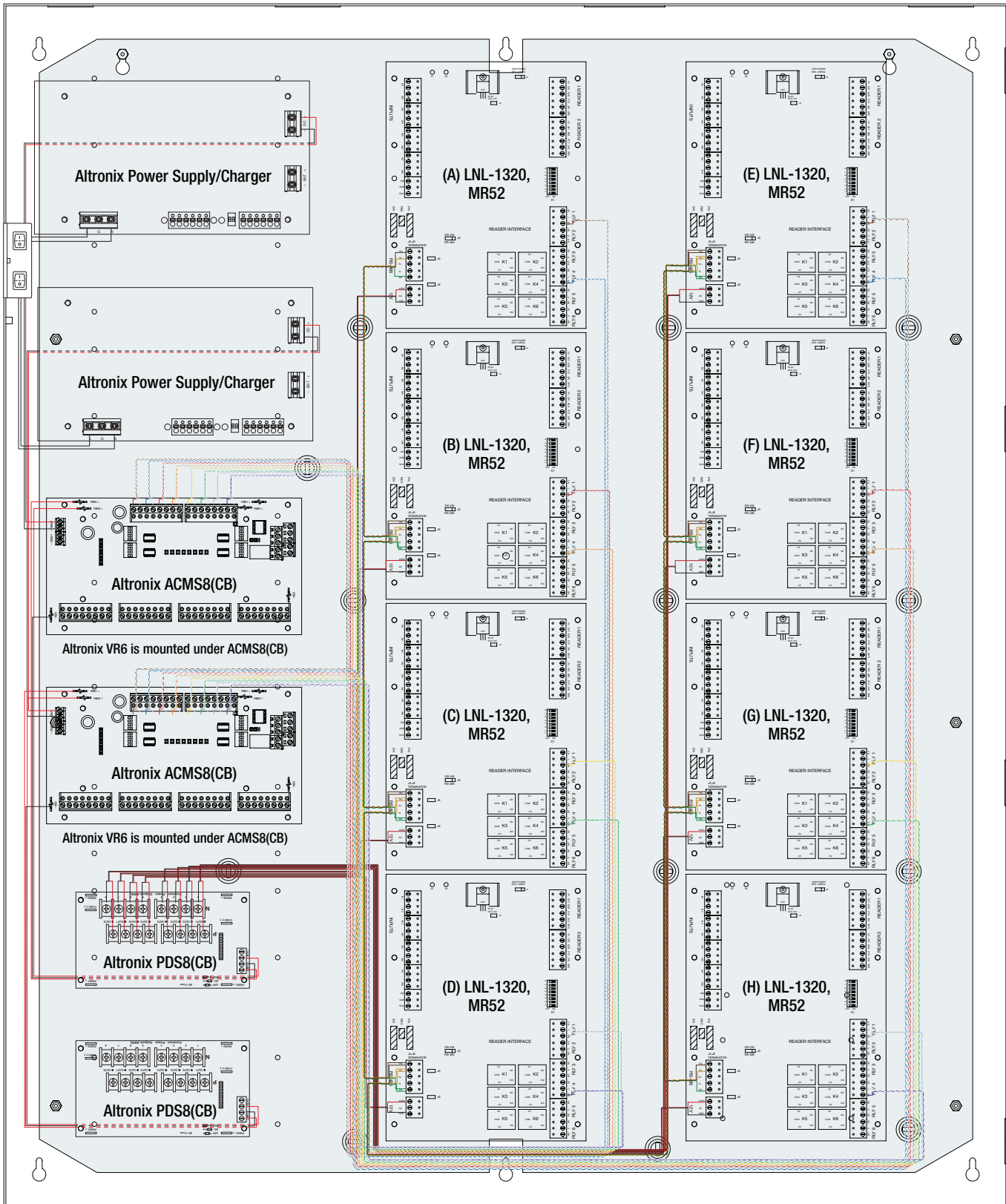
Accessories (order separately)

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

1.07" (27.2mm)
30.12" (768.1mm)
14.01" (355.9mm) — 14.01" (355.9mm)

2.00" (50.8mm)
1.25" (31.8mm)
1" Conduit
3/4" Conduit
10.75" (273.1mm)
10.62" (269.8mm)
10.75" (273.1mm)

1.10" (27.9mm)
33.63" (854.2mm)

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2" (50.8mm)
1" Conduit
3/4" Conduit
10.75" (273.1mm)
10.62" (269.8mm)
10.75" (273.1mm)
36.12" (917.5mm)

7.06" (179.3mm)
1.25" (31.8mm)

3/4" Conduit
1" Conduit
1.25" (31.8mm)
2" (50.8mm)
8.75" (222.3mm) — 8.62" (219mm) — 8.75" (222.3mm)