Altronix®

T3M77LCK2D (Pre-wired Kit)

Access and Power Integration Solution for Mercury

TROVE PLUS

Altronix T3M77LCK2D is a 14-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 T3M77LCK2D accommodates one (1) Intelligent Controller and seven (7) 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™

T3M77LCK2D - includes
(2) AL1024ULXB2, (2) ACMS8CB,
(2) VR6, (2) PDS8CB,
wire harnesses and management

Mercury boards are not included

Key Features

- Accommodates the following Mercury controllers:
  1 - LP2500 and 7 - MR52
- Convenient knockout configuration:
  - One (1) single knockout - 2" Conduit
  - Two (2) double knockout - 1.25" Conduit and 1.5" Conduit
  - Thirteen (13) double knockouts - 3/4" Conduit and 1" Conduit
- Unit includes:
  - Removable backplane
  - Wire management
  - Custom Wire Harnesses for power distribution and controller connections
- 16 AWG galvanized steel backplane simplifies board layout and wire management

- Supervision
  - AC Fail
  - Low Battery and Battery Presence
- Agency Listings:
  - All Altronix components of this Trove kit are UL Listed sub-assemblies. Please refer to the Sub-Assembly Installation Guides for further information
  - UL: UL294 - Access Control System
  - cUL: CAN/ULC - s319-05 - Electronic Access Control Systems
  - CE European Conformity
- Enclosure accommodates up to four (4) 12VDC/12AH batteries
- Lifetime Warranty*

Altronix Power Supply/Chargers and Sub-Assemblies only

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Specifications

Two (2) Power Supplies (AL1024ULXB2):

Input
Voltage	115VAC 60Hz, 8.4A max.
Input Fuse	5A/250V

Outputs
Voltage	24VDC
Current	10A @ 24VDC continuous max
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

Indicators (LED)
Input	115VAC is present
DC Output	Powered
Battery	Discharged or not connected

Two (2) Dual Input Access Power Controllers (ACMS8CB):

Input
Voltage	24VDC from AL1024ULXB2 and
	12VDC from VR6
Input PTCs	9A

Outputs

Voltage   12 or 24VDC individually selectable
Eight (8) selectable 12VDC - 24VDC independently controlled outputs or eight (8) indepenly 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) PTC protected 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)
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 AL1024ULXB2

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 AL1024ULXB2 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

T3M77LCK2D Kit:

Agency Listings

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

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-3300, LP2500

(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
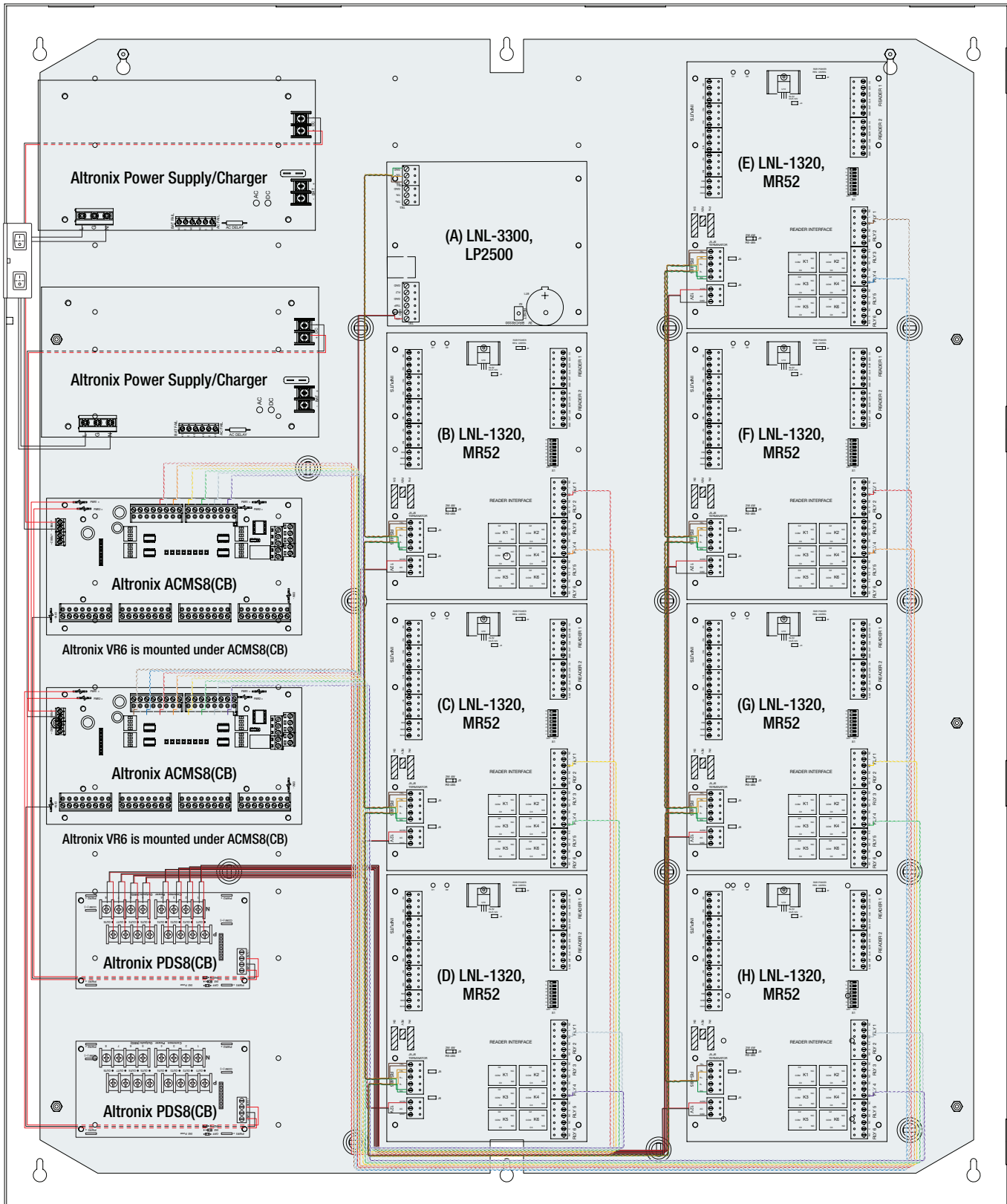
Accessories (order separately)

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
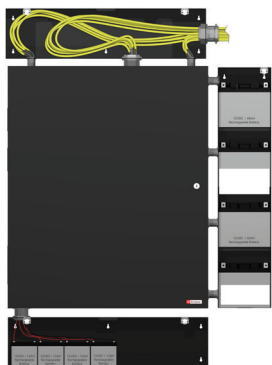
TROVE3BWC / TROVE3SWC - Battery/Wire Trough Enclosure

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

2.00" (50.8mm)

1.25" (31.8mm)

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

14.01" (355.9mm) — 14.01" (355.9mm)

2" (50.8mm)

1.10" (27.9mm)

10.75" (273.1mm)

1" Conduit
3/4" Conduit

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1" Conduit
3/4" Conduit

10.62" (269.8mm)

10.75" (273.1mm)

33.63" (854.2mm)

10.75" (273.1mm)

10.62" (269.8mm)

36.12" (917.5mm)

10.75" (273.1mm)

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)