Altronix®

Rev. 04202023

T3M77LXK2D (Pre-wired Kit)

Access and Power Integration Solution for Mercury

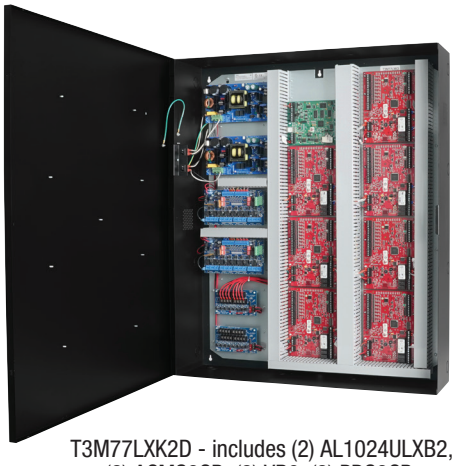
TROVE PLUS

Altronix T3M77LXK2D 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 T3M77LXK2D accommodates up to 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, LockState, Maxxess, Midpoint Security, NLSS, Open Options, Panasonic i-PRO MonitorCast, Quintron, RS2, S2 Security, Schneider Electric, Vanderbilt.

Mercury



T3M77LXK2D - includes (2) AL1024ULXB2, (2) ACMS8CB, (2) VR6, (2) PDS8CB, wire harnesses and finger duct

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
  - 3” high finger duct for wire management
  - Custom Wire Harnesses for power distribution and controller connections
- 16 gauge 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) 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) 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

T3M77LXK2D 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.

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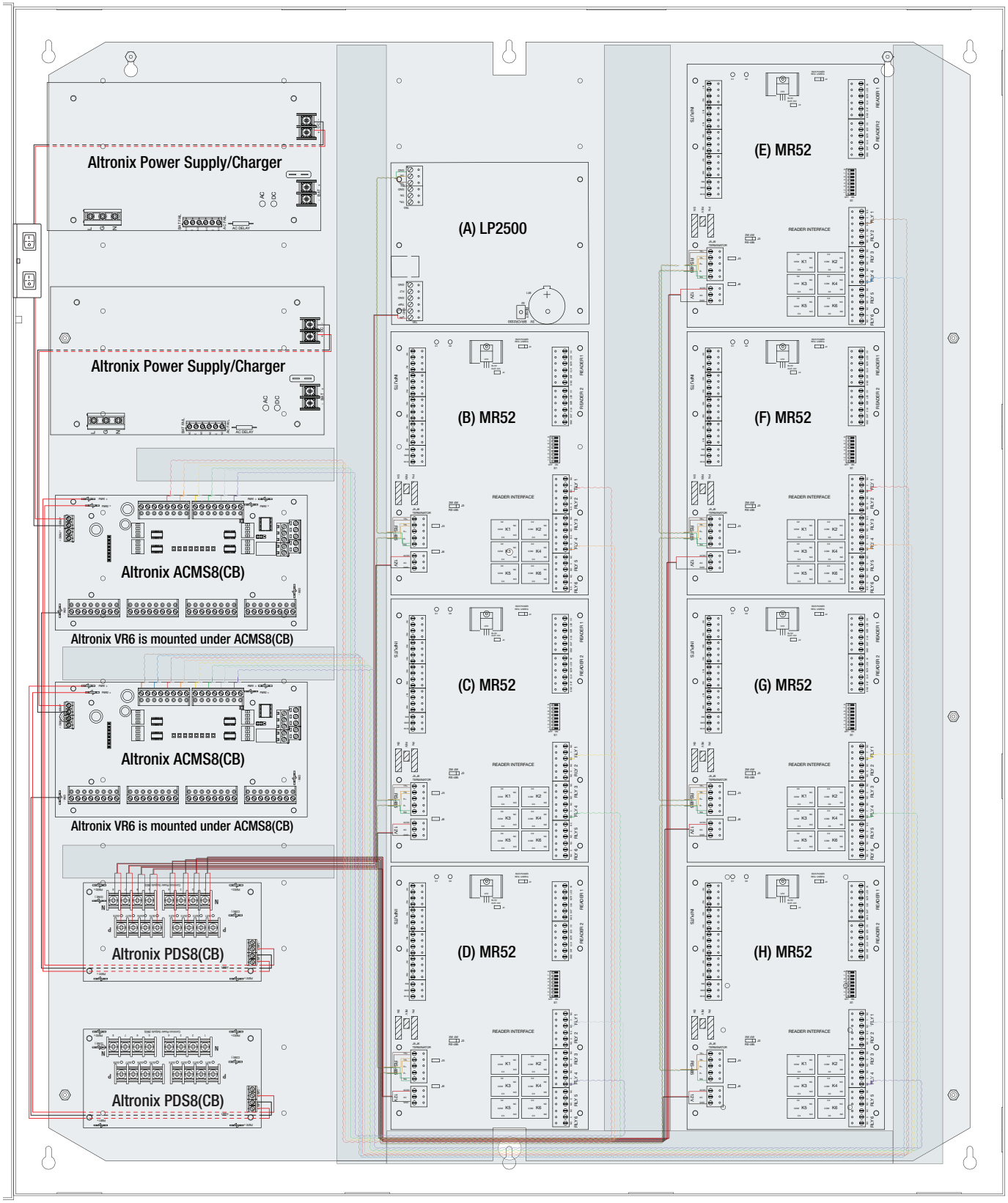

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Accessories (order separately)

WM5

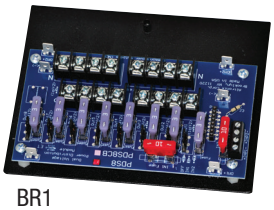
WM5, WM25, WM100 - Magnetic Cable Tie Mounts

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

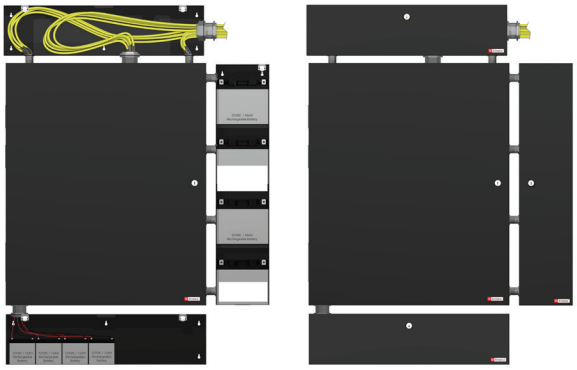
Altronix mounting magnets accommodate screws and nylon standoffs to allow for mounting various boards/ accessories in any metal enclosure or backplane.



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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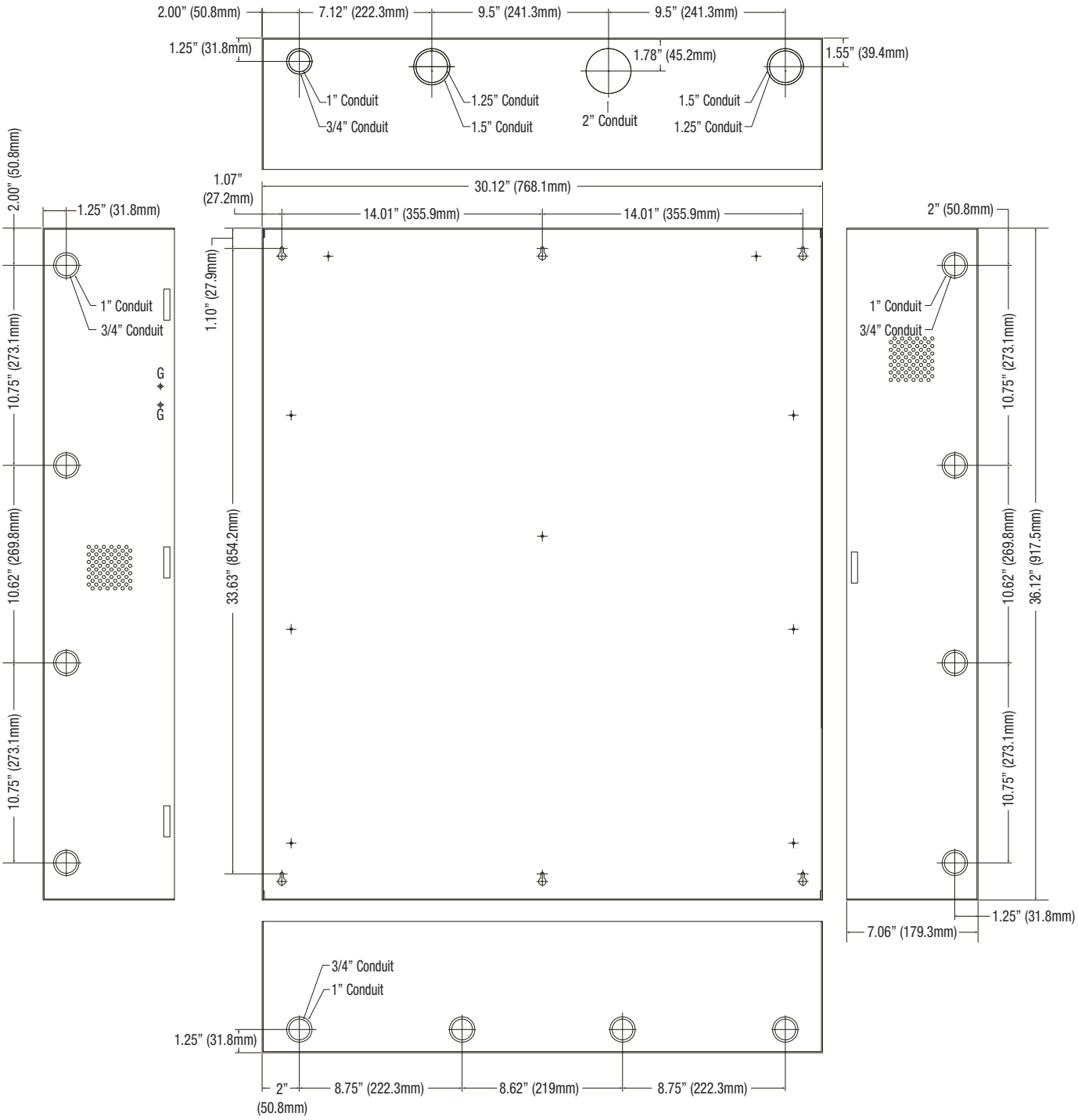
Dimensions and Drawing

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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