Altronix®

T3M77LXK1D (Pre-wired Kit)
## Access and Power Integration Solution for Mercury

TROVE PLUS

Altronix T3M77LXK1D 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 plat-form controllers and locking devices. The T3M77LXK1D accommodates up to one (1) Intelligent Dual Reader 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 SECURITY
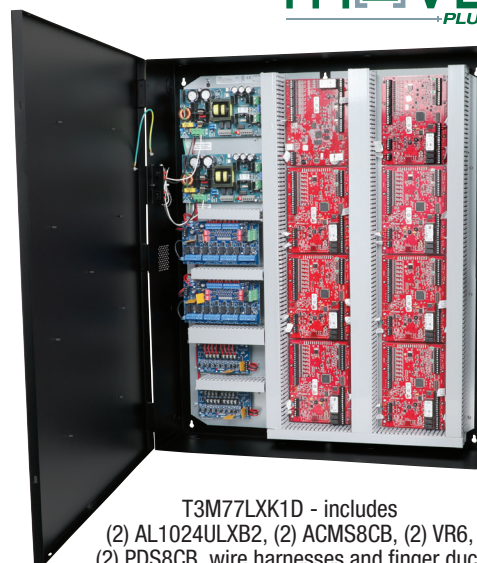
T3M77LXK1D - includes
(2) AL1024ULXB2, (2) ACMS8CB, (2) VR6,
(2) PDS8CB, wire harnesses and finger duct

Mercury boards are not included

Key Features

- Accommodates the following Mercury controllers:
  1 - LP1502 / LP4502 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 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

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.

Altronix®

T3M77LXK1D (Pre-wired Kit)
Access and Power Integration Solution for Mercury

TROVE PLUS

Specifications

Two (2) Power Supplies (AL1024ULXB2):

Input
Voltage	115VAC 60Hz, 4.2A max.
Fusing	5A/250V

Outputs
Voltage	24VDC
Current	10A @ 24VDC continuous max.
Other	Overvoltage protection. Filtered and regulated

Back-up Battery
Capacity	12AH /12VDC (2 within enclosure)
	40 AH / 65 AH (requires separate enclosure)
Type	Sealed lead acid or gel type
Failover	Upon AC loss, instantaneous

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) 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) Access Power Controllers (ACMS8CB):

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

Outputs
Voltage	12VDC and/or 24VDC

Eight (8) independently controlled fused 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) Dual Input Power Distribution Modules (PDS8CB):

Input
Voltage	12VDC from VR6 and 24VDC from AL1024ULXB2
Input PTC	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

Outputs Ratings
PTCs	2.5A

Indicators (LED)
DC Output	Eight (8) individual output LEDs
Green:	12VDC
Red:	24VDC

T3M77LXK1D 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

ACMS8(CB) with VR6 below

ACMS8(CB) with VR6 below

PDS8(CB)

PDS8(CB)

(A) LP1502 / LP4502

(B) MR52

(C) MR52

(D) MR52

(E) MR52

(F) MR52

(G) MR52

(H) MR52

READER INTERFACE

Altronix®

T3M77LXK1D (Pre-wired Kit)
Access and Power Integration Solution for Mercury

TROVE PLUS
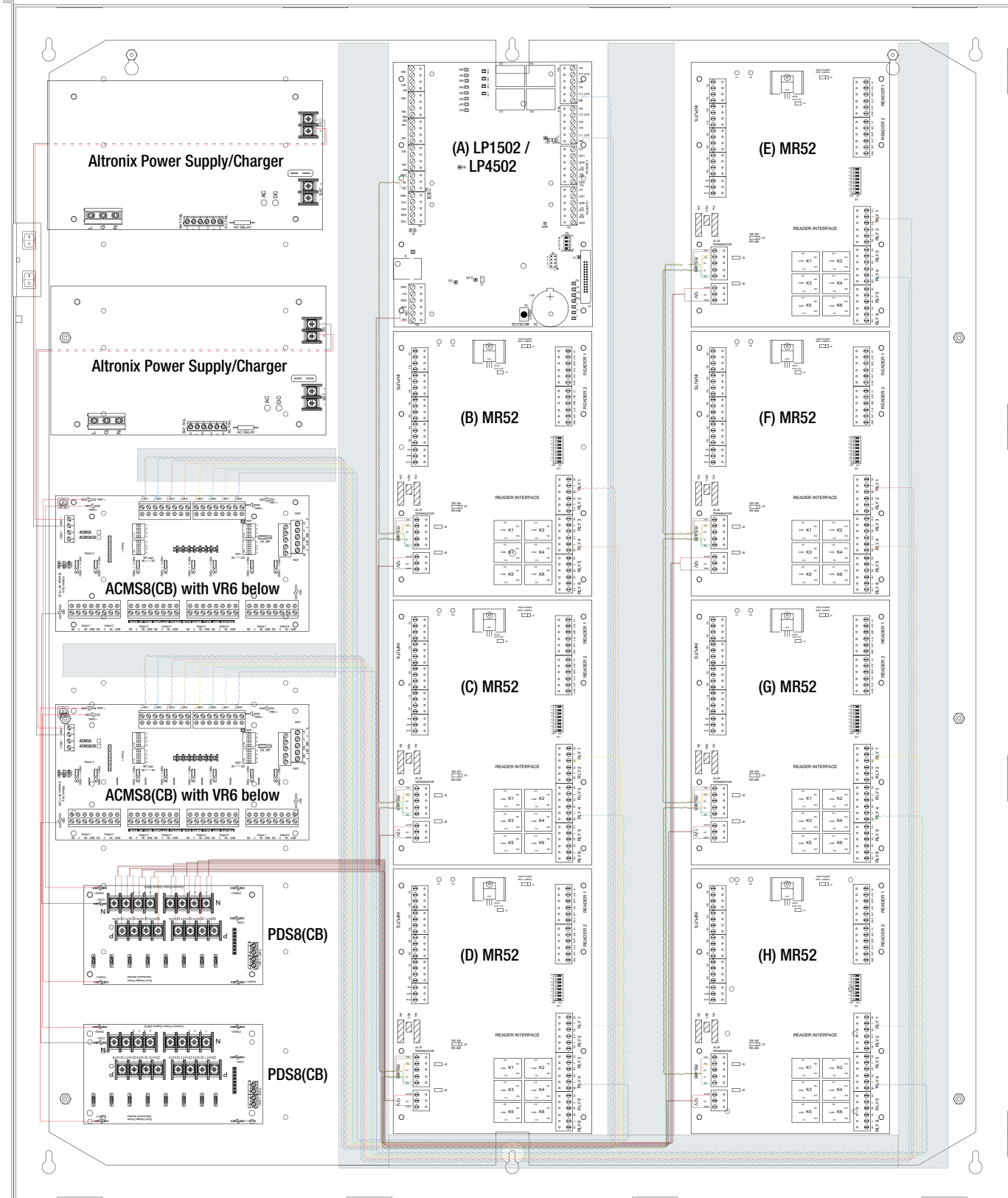
Dimensions and Drawing

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

1.07" (27.2mm)
30.12" (768.1mm)
14.01" (355.9mm)   14.01" (355.9mm)
1.10" (27.9mm)
33.63" (854.2mm)

2" (50.8mm)
1" Conduit
3/4" Conduit
10.75" (273.1mm)
10.62" (269.8mm)
10.75" (273.1mm)
36.12" (917.5mm)
1.25" (31.8mm)
7.06" (179.3mm)

G
G

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