T1M1LCK1D

Access and Power Integration Solution for Mercury

Altronix T1M1LCK1D is a 4-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 T1M1LCK1D accommodates one (1) Intelligent Dual Reader Controller and one (1) 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

T1M1LCK1D - includes
AL400ULXB2, PDS8, VR6, ACM4CB,
wire harnesses and wire magnets

Mercury boards are not included

Key Features

- Accommodates the following Mercury controllers:
  1 - LP1502 / LP4502 and 1 - MR52
- Convenient knockout configuration:
  - One (1) double knockout
    1.948" (1-1/2" Conduit) / 1.701" (1-1/4" Conduit)
  - Nine (9) double knockouts
    1.362" (1" Conduit) / 1.115" (3/4" Conduit)
- Unit includes:
  - Removable backplane
  - Wire management
  - Custom wire assemblies for power distribution with terminal blocks for controller connections
- 16 AWG galvanized steel backplane simplifies board layout and wire management
- Supervision
  - AC Fail
  - Battery Fail and Battery Presence
- CE European Conformity
- Enclosure accommodates up to two (2) 12VDC/7AH 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.

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Specifications

Power Supply (AL400ULXB2):

Input

Voltage	115VAC, 60Hz, 3.5A max
Fusing	5A / 250V

Output

Voltage	12VDC or 24VDC selectable
Current	4A @ 12VDC or 3A @ 24VDC continuous max
Other	Overvoltage protection. Filtered and regulated

Battery Backup

Capacity	7AH / 12VDC (Up to 2 within enclosure) 40 AH / 65 AH (requires separate enclosure)
Type	Sealed lead acid or gel type
Fuse Rating	15A/32V
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

Dual Input Power Distribution Module (PDS8CB)

Input

Voltage	12VDC from VR6 and 24VDC from AL400ULXB2
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

Voltage Regulator (VR6):

Input

Voltage	24VDC from AL400ULXB2

Voltage Regulator (VR6) (cont'd):

Output

Voltage	12VDC
Current	6A continuous
Other	Surge suppression

Indicators (LED)

Input	24VDC is present
Output	Powered

Access Power Controller (ACM4CB):

Input

Voltage	24VDC from AL400ULXB2
Input Fuse	10A/32V

Outputs

Voltage: 24VDC

Four (4) independently controlled 2.5A outputs:

a) Four (4) Fail-Safe and/or Fail-Secure power outputs

b) Any combination of the above

Four (4) auxiliary power outputs (unswitched)

Outputs Ratings

PTCs	2.5A

Indicators (LED)

Red LEDs	Outputs are triggered (relays energized)
Green LED	FACP disconnect is triggered

T1M1LCK1D 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)

18" x 14.5" x 4.62" (457.2mm x 368.3mm x 118.0mm).

Weight (approx.)

Product	18.0 lbs. (8.17 kg)
Shipping	22.0 lbs. (9.98 kg)

Temperature

Operating	0ºC to 49ºC (32ºF to 120ºF).
Storage	-20ºC to 70ºC (-4ºF to 158ºF).

Relative Humidity	85% +/-5%
BTU/Hr. (approx.):	90 BTU/Hr

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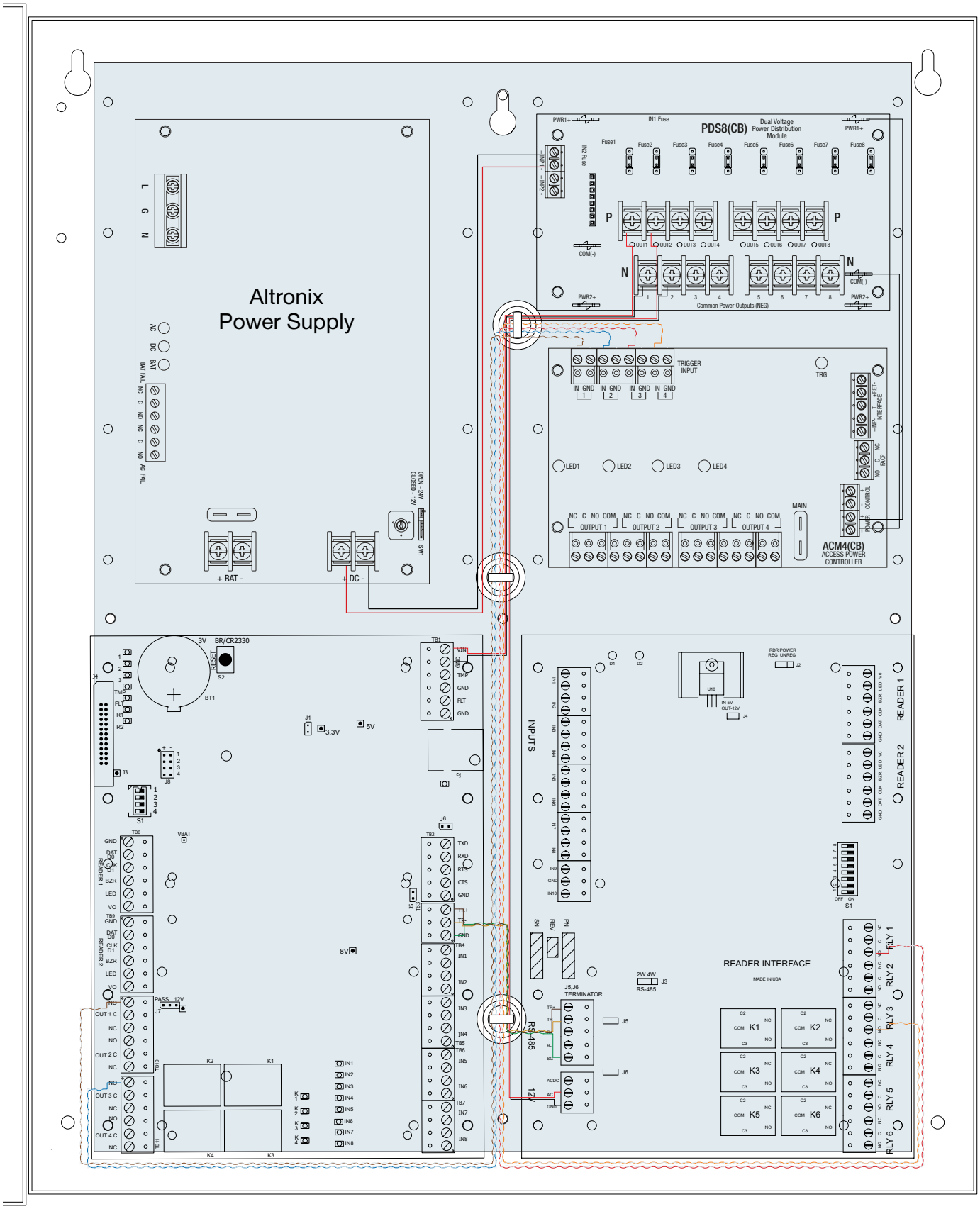

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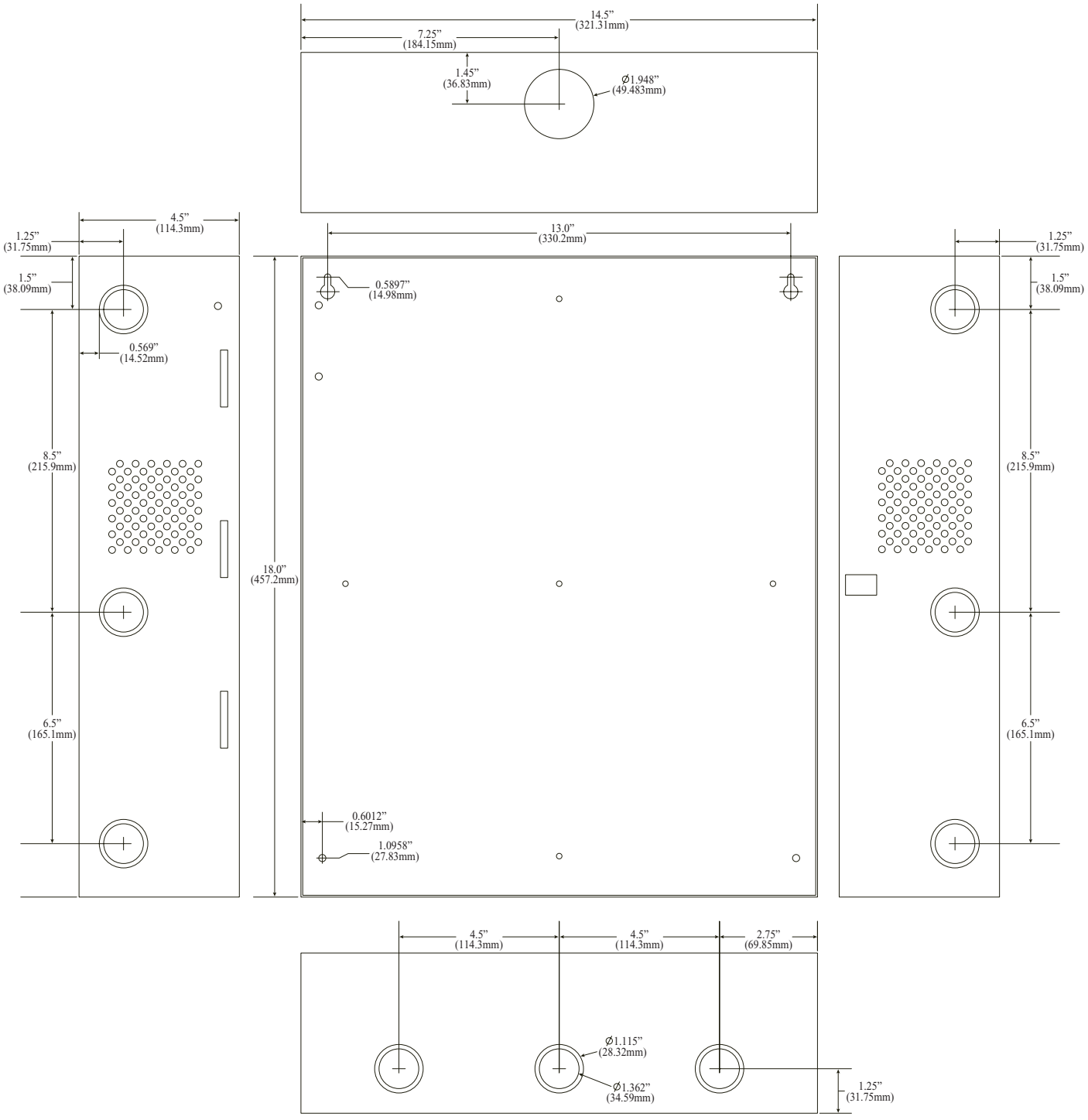

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