Altronix®

Rev. 07052023

T1M1CK1D (Pre-wired Kit)

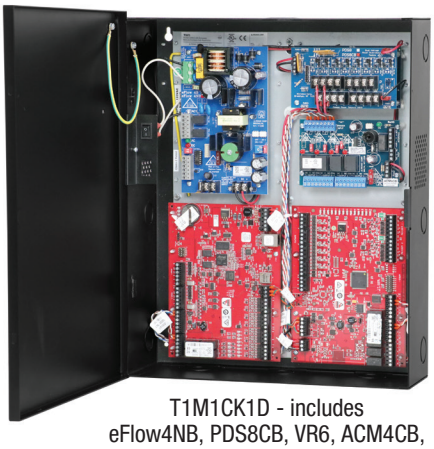
Access and Power Integration Solution for Mercury

TROVE PLUS

Altronix T1M1CK1D 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 T1M1CK1D accommodates one (1) Intelligent Dual Reader Controller and one (1) Dual Reader Interface Module. 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™



T1M1CK1D - includes eFlow4NB, PDS8CB, VR6, ACM4CB, wire harnesses and wire magnets

Mercury modules are not included

Key Features

- Accommodates the following Mercury controllers:
  1 - LP1502 / LP4502 and 1 - MR52
- Convenient knockout configuration:
  - One (1) knockout - 1-1/2" Conduit
  - Nine (9) double knockouts - 3/4" Conduit and 1" Conduit
- Unit includes:
  - Removable backplane
  - Wire management
  - Custom wire assemblies for power distribution with terminal blocks for controller connections
- 16 gauge galvanized steel backplane simplifies board layout and wire management
- Supervision
  - AC Fail
  - Low Battery and Battery Presence
  - Low power shutdown
- 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 two (2) 12VDC/7AH batteries
- Lifetime Warranty*

Altronix Power Supply/Chargers and Sub-Assemblies only

Altronix Corporation | 140 58th St | Brooklyn, NY 11220 USA
phone: +1 718.567.8181 | fax: +1 718.567.9056 | email: info@altronix.com | www.altronix.com

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Specifications

Power Supply (eFlow4NB):

Input
- Voltage: 120VAC, 60Hz, 3.5A
- Input Fuse: 5A/250V

Output
- Voltage: 24VDC
- Current: 4A continuous
- Other: Overvoltage protection. Filtered and regulated

Battery Charging
- Capacity: 7AH/12VDC (2 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
- 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)
- Input: 120VAC is present
- DC Output: Powered
- Battery: Discharged or not connected

Dual Input Power Distribution Module (PDS8CB)

Input
- Voltage: 24VDC from eFlow4NB 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

Voltage Regulator (VR6):

Input
- Voltage: 24VDC from eFlow4NB

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 eFlow4NB
- Input PTC: 9A

Outputs
- Voltage: 24VDC

Four (4) independently controlled PTC 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

T1M1CK1D 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:
18" x 14.5" x 4.62" (457.2mm x 368.3mm x 118.0mm)
Shipping:
21.75" x 18.25" x 5.75" (552.5mm x 463.6mm x 146.1mm)

Weight (approx.)
- Product: 18.0 lb. (8.17 kg)
- Shipping: 22.0 lb. (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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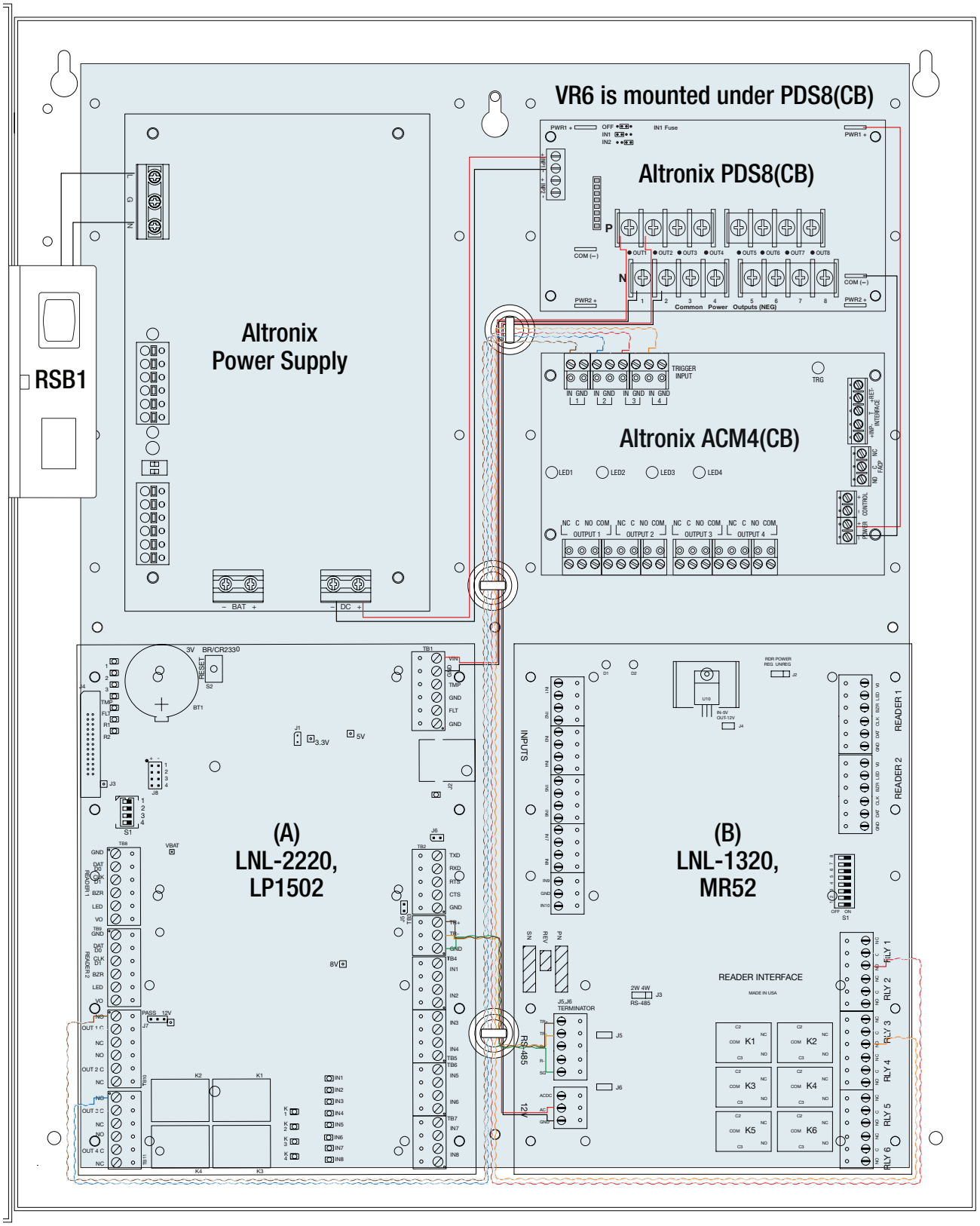

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Accessories (order separately)

LINQ2

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

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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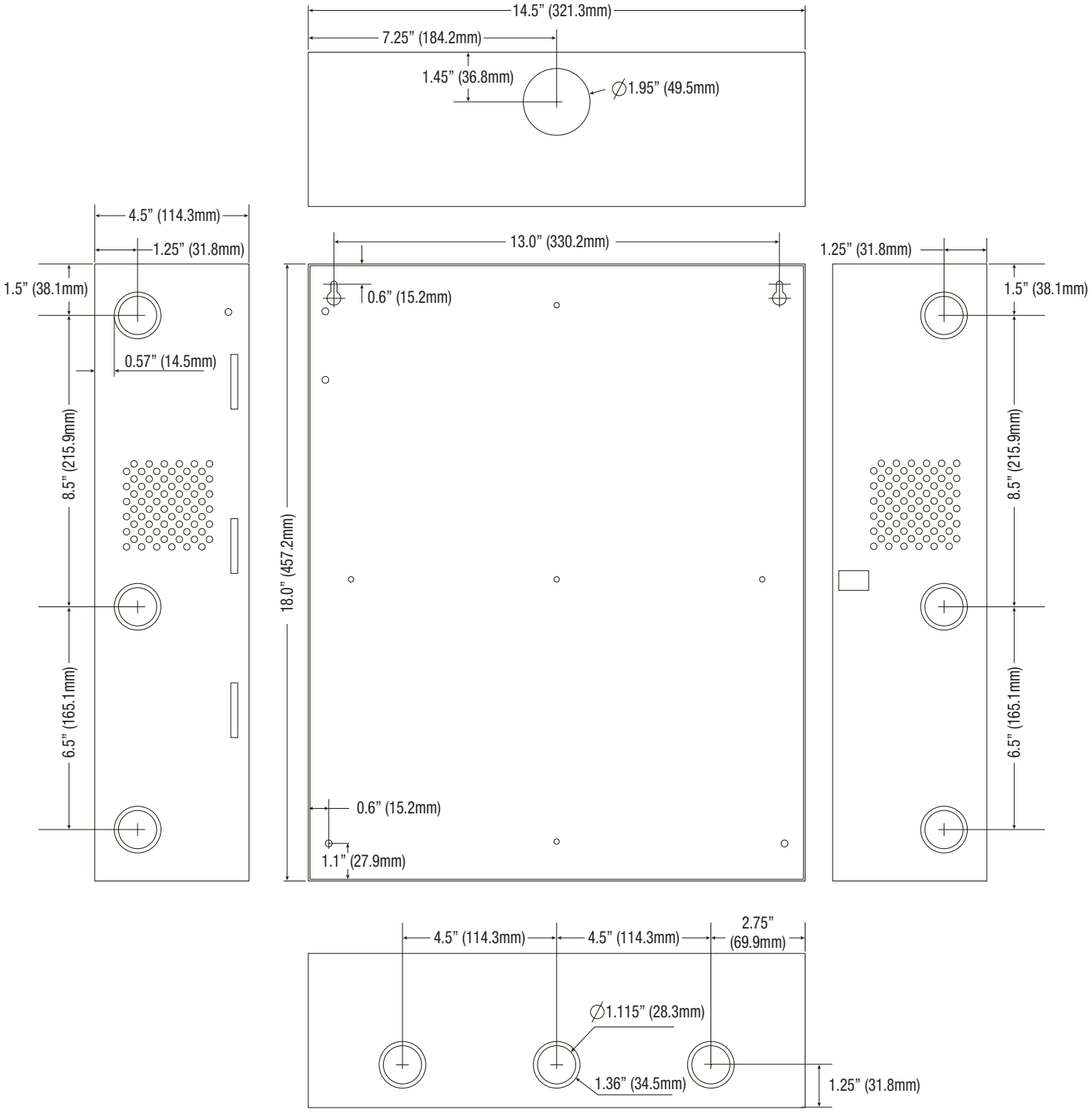
Dimensions and Drawing

Dimensions (H x W x D approximate)

18.0" x 14.5" x 4.625" (457.2mm x 368.3mm x 117.5mm)



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