Altronix®

Rev. 09192023

T2RM7CK1D (Pre-wired Kit)

Rack Mount Access and Power Integration Solution for Mercury

TROVE PLUS

Altronix T2RM7CK1D is a 8-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 T2RM7CK1D accommodates one (1) Intelligent Dual Reader Controller and three (3) Dual Reader Interface Modules. Trove Plus simplifies field installations and provides reliable, robust critical power and control for the most demanding applications.

T2RM7CK1D - includes eFlow104RLB, ACMS8CB, VR6, PDS8CB, wire harnesses and management

Mercury boards are not included

*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™

Key Features

- Accommodates the following Mercury controllers: 1 - LP1502 / LP4502 and 3 - MR52
- Black powder coated steel enclosure
- Convenient knockout configuration:
  - Six (6) 1.25" diameter knockouts located on the back of enclosure
- 16 AWG galvanized steel backplane simplifies board layout and wire management
- 6' IEC320 3-wire power cord
- 2U drawer on extendable rails
- Included Z Bracket facilitates ease of wiring
- Includes cam lock, tamper switch and mounting hardware
- 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
  - CE European Conformity
- Lifetime Warranty*

Altronix Power Supply/Chargers and Sub-Assemblies only

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Specifications

Power Supply (eFlow104RLB):

Input
- Voltage: 120VAC, 60Hz, 4.5A max
- Input Fuse: 6.3A/250V

Output
- Voltage: 24VDC @ 10A
- Auxiliary: 1A (unswitched)
- Protection: Overvoltage protection. Filtered and regulated

Battery Charging
- Type: Sealed lead acid or gel type
- Failover: Upon AC loss, instantaneous

Batteries are sold separately

Fire Alarm Disconnect
- Supervised: Latching or non-latching
- EOL: 10K Resistor

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)
- AC Input: 120VAC is present
- DC Output: 24VDC is present
- Battery: Discharged or not connected

Dual Input Access Power Controller (ACMS8CB):

Input
- Voltage: 24VDC from eFlow104RLB and 12VDC from VR6
- Input PTCs: 9A

Outputs
- Voltage: 12VDC and/or 24VDC

Eight (8) selectable 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

Voltage Regulator (VR6):

Input
- Voltage: 24VDC from eFlow104RLB

Output
- Voltage: 12VDC
- Current: 6A continuous
- Other: Surge suppression

Indicators (LED)
- Input: 24VDC is present
- Output: Powered

Dual Input Power Distribution Module (PDS8CB):

Input
- Voltage: 24VDC from eFlow104RLB 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

T2RM7CK1D Kit:

Agency Listings
- CE: European Conformity

Physical and Environmental:
- Dimensions (H x W x D)
  - Enclosure: 3.25" x 19.0" x 33.25" (82.6mm x 482.6mm x 844.6mm)
  - Shipping: 7.75" x 22.5" x 42.0" (196.9mm x 571.5mm x 1,066.8mm)
- Weight (approx.)
  - Product: 40.5 lb. (18.37 kg)
  - Shipping: 45.5 lb. (20.64 kg)
- Temperature
  - Operating: 0ºC to 49ºC (32ºF to 120ºF)
  - Storage: – 20ºC to 70ºC (– 4ºF to 158ºF)
- Relative Humidity: 85% +/– 5%
- BTU/Hr. (approx.): 145 BTU/Hr.

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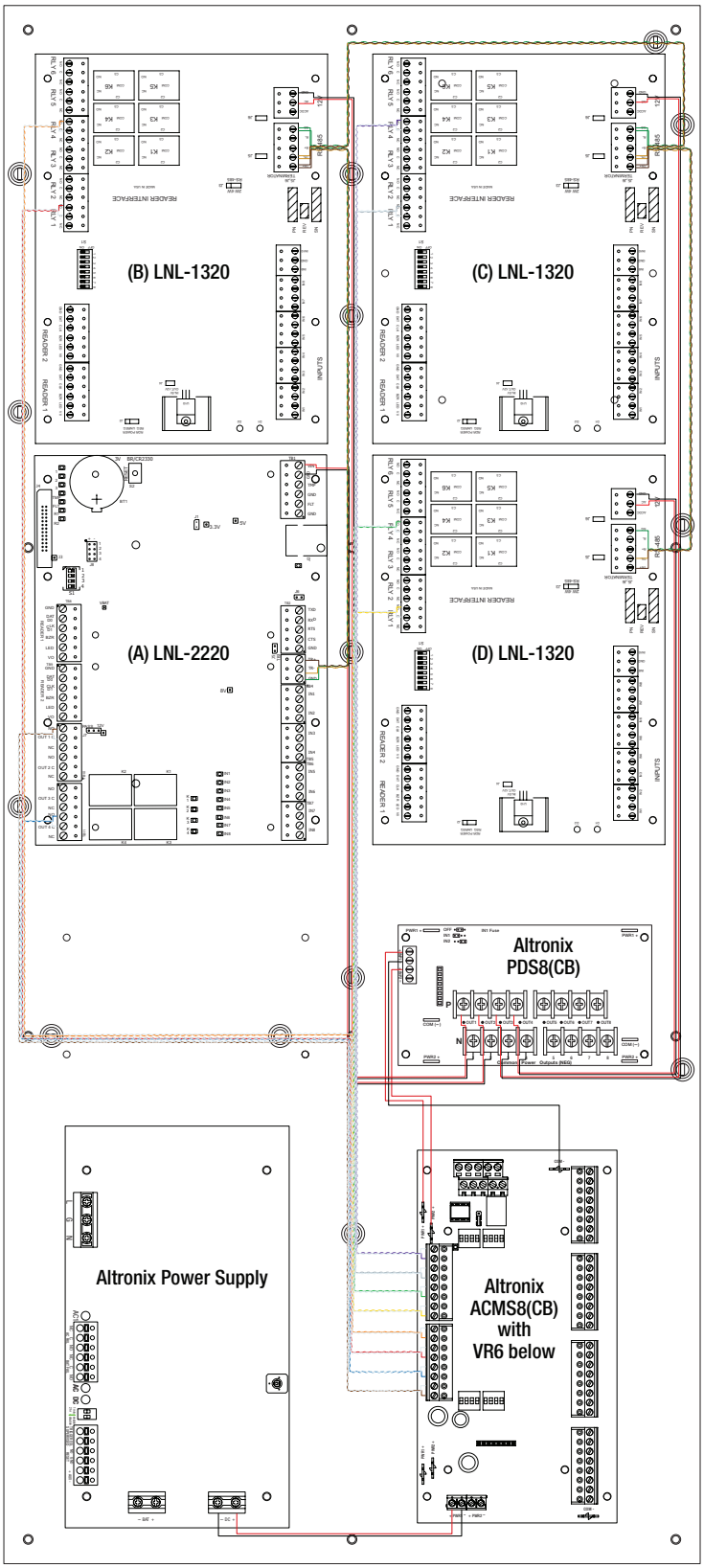

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Accessories (order separately)

RE2

RE2 - Rack Mount Battery Enclosure

accommodates up to four (4) 12VDC/7AH batteries

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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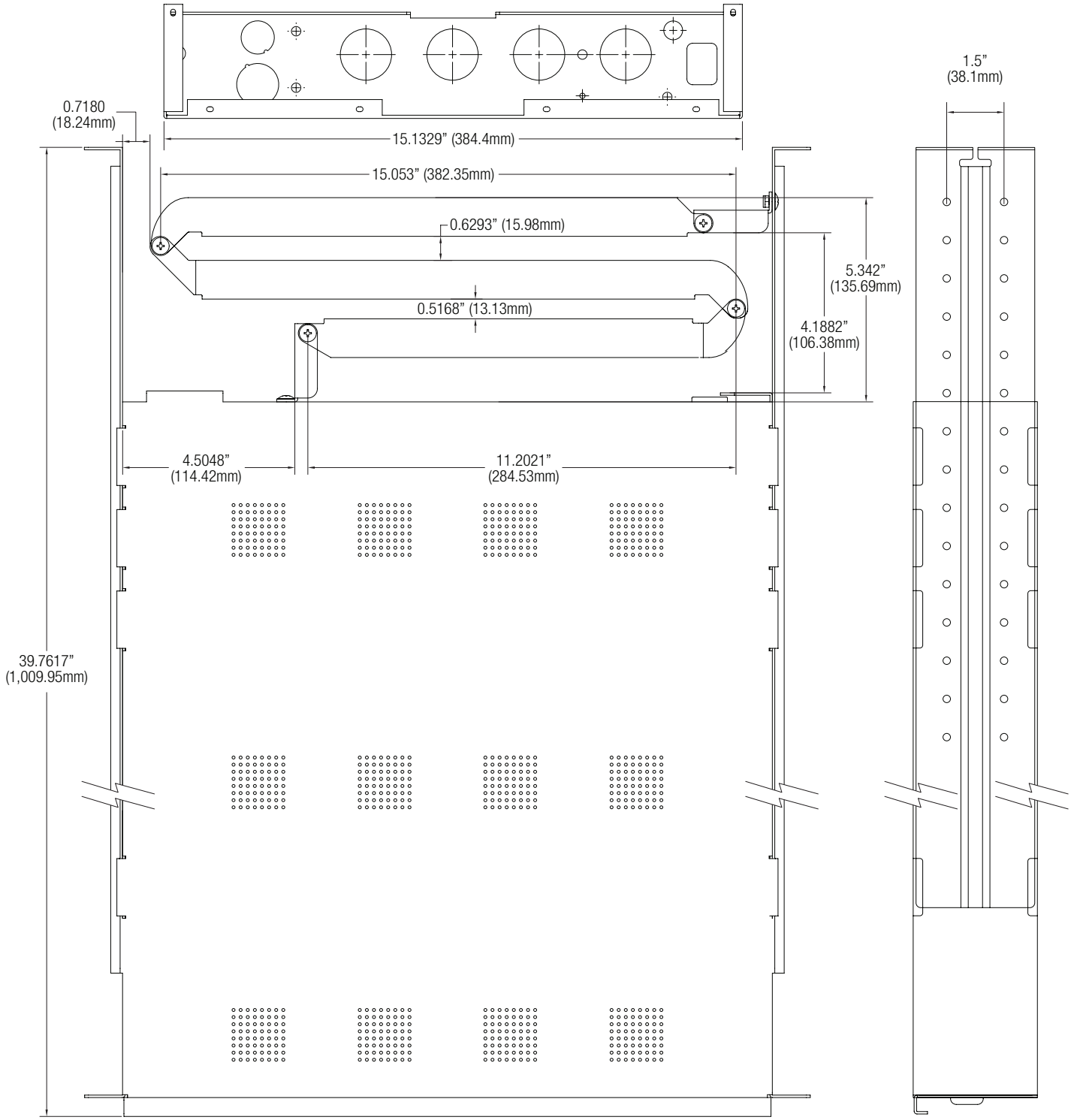
Dimensions and Drawing

Dimensions (H x W x D approximate)

3.25” x 19.0” x 33.25” (82.6mm x 482.6mm x 844.6mm)



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