Altronix®

Rev. 09192023

T2RM7CK1DV (Pre-wired Kit)

Rack Mount Access and Power Integration Solution for Mercury

TROVE PLUS

Altronix T2RM7CK1DV 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 T2RM7CK1DV 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.

T2RM7CK1DV - includes eFlow104RLBV, 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:
  - CE European Conformity
- 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 (eFlow104RLBV):

Input

Voltage	220VAC (working range 198VAC - 256VAC), 50/60Hz, 2.7A
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	220VAC is present
DC Output	24VDC is present
Battery	Discharged or not connected

Dual Input Access Power Controller (ACMS8CB):

Input

Voltage	24VDC from eFlow104RLBV 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 eFlow104RLBV

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 eFlow104RLBV 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

T2RM7CK1DV 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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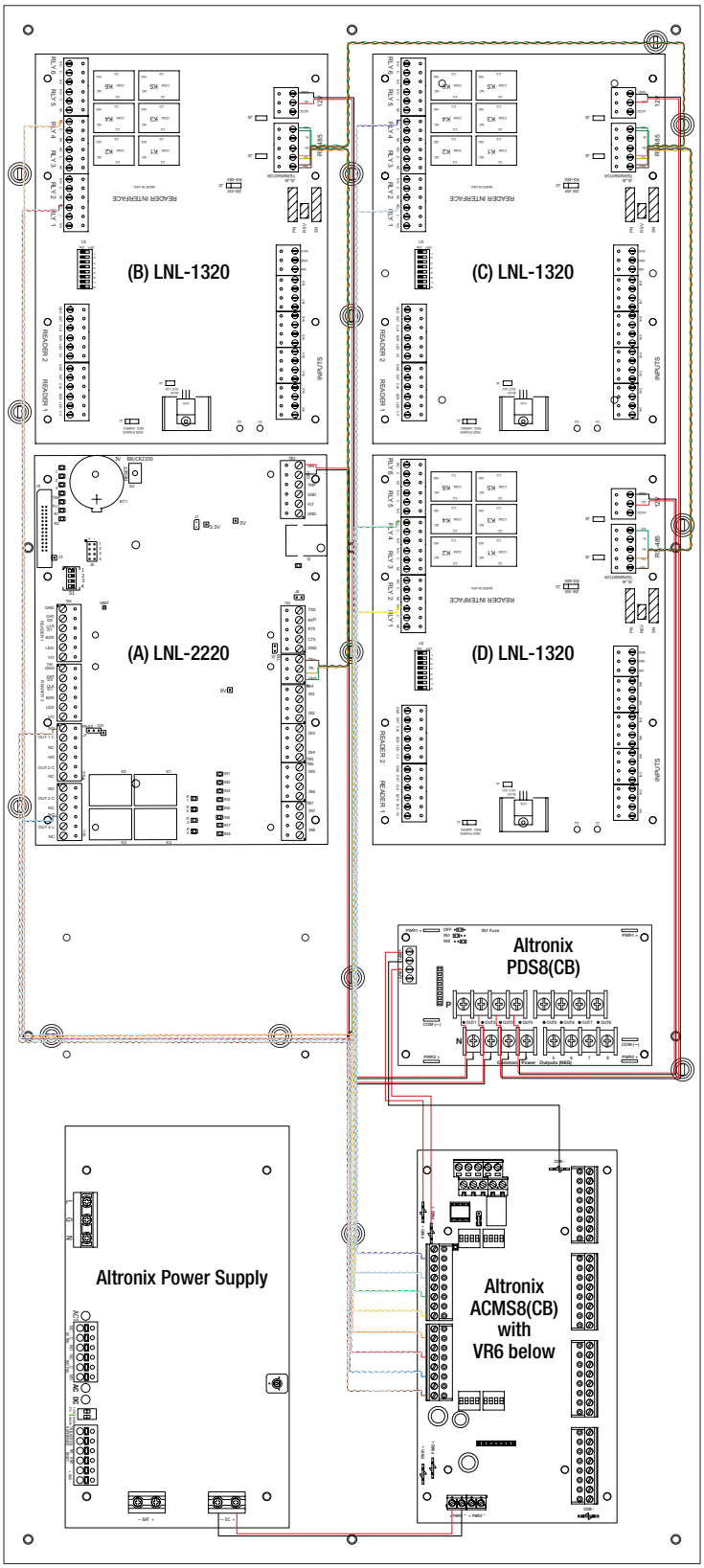

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Accessories (order separately)

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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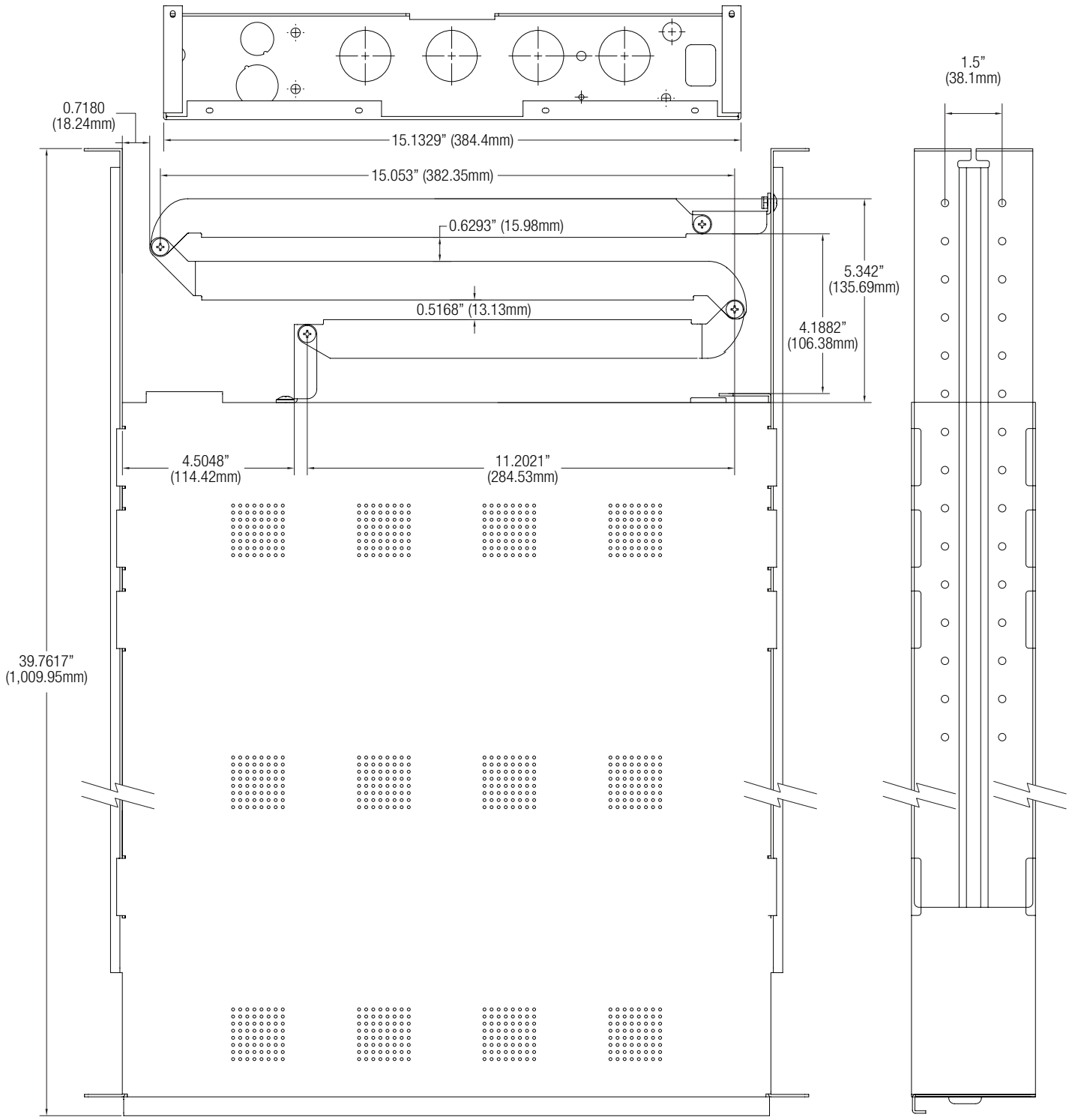
Dimensions and Drawing

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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