Altronix®

T2RM7F8SQ (Kit)
Access & Power Integration Solution for Mercury

TROVE™

Altronix T2RM7F8SQ rack kit consists of Trove2M2R enclosure/backplane with one (1) 24VDC @ 10A power supply/charger, one (1) dual input networked eight (8) fuse protected output access control module, one (1) voltage regulator and one (1) dual input eight (8) fuse protected output power distribution module. This kit also accommodates various combinations of Mercury* boards for up to eight (8) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.

*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 Video Insight, Quintron, RS2, Schneider Electric, Vanderbilt

T2RM7F8SQ

Mercury boards are not included

Mercury™

Key Features

- 24VDC power supply/charger

- Accommodates the following Mercury controllers:
  EP1502, MR52, MR16IN, MR16OUT, EP2500, MUX8, MR51e, EP1501, MR50

- 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 (minimum 40", maximum 48")

- 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

- CE European Conformity

- Lifetime Warranty*

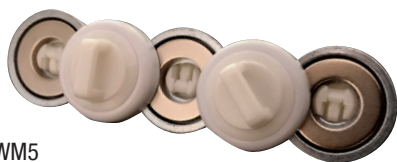**Altronix Power Supply/Chargers and Sub-Assemblies only*

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.

Specifications

Power Supply/Charger (eFlow104RLB):

Input

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

Outputs

Voltage	24VDC
Current	10A continuous
Auxiliary	Class 2 power-limited @ 1A (unswitched)
Other	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. Prevents deep battery discharge

Indicators (LED)

Input	120VAC is present
DC Output	Powered
Battery	Discharged or not connected

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 (PDS8):

Input

Voltage	24VDC from eFlow104RLB and 12VDC from VR6
Input Fuses	10A/32V

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 Fuses	3A/32V

Indicators (LED)

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

Networked Access Power Controller (LINQ8ACM):

Input

Voltage	24VDC from eFlow104RLB and 12VDC from VR6
Input Fuses	15A/32V

Outputs

Fuse protected outputs
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 Fuses:	3A/32V

Programming Features:

Eight (8) Programmable Outputs:
- Fail-safe, fail-secure or auxiliary outputs
- Input controlled or manually controlled through software
- High (over) and low (under) voltage and current monitoring by output
- Multiple outputs may be programmed to be triggered by a single input
- Battery back-up by output

Eight (8) Programmable Trigger Inputs:
- Normally open (NO), Normally closed (NC) or Open collector sink inputs
- Wet Input (5VDC - 24VDC) with 10k resistor
- Any combination of the above

Other Programmable Trigger Inputs:
- Monitor power supply(ies) input for voltage and current limits (high/low)
- Input and output current calibration, Programmable timer events
- Programmable user levels, Enable or disable alerts by type
- Programmable alert reporting delay

Indicators (LED)

Green AC LED:	indicates AC trouble condition
Green BAT LED:	indicates battery trouble condition
Green FACP LED:	indicates FACP disconnect is triggered
Flashing Blue Heartbeat LED:	indicates network connection
Individual OUT1 - OUT8 Red LEDs:	indicate outputs are triggered
Individual Voltage LEDs:	indicate 12VDC (Green) or 24VDC (Red)

T2RM7F8SQ Kit:

Agency Listings

CE	European Conformity.

Physical and Environmental:

Dimensions (H x W x D):
  Modular 2U standard EIA 19" rack mount chassis
  Rack Tower minimum 42" and maximum 48".
  Enclosure: 3.25" x 19.0" x 33.1" (82.6mm x 482.6mm x 840.8mm)
  Shipping: 7.75" x 22.5" x 42.0" (196.9mm x 571.5mm x 1,066.8mm)

Weights (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.:	123 BTU/Hr.

Access Controller Position Chart for the Following Models:

Altronix/Mercury	Pem Mounting
LP1502, LP4502, MR52, MR16IN, MR16OUT	Ⓐ
LP2500, MUX8	Ⓑ
Genetec Cloudlink	Ⓒ

Altronix Power Supply

Altronix LINQ8ACM(CB)

Altronix VR6 is mounted under PDS8(CB)

Ⓐ   Ⓐ

Ⓐ   Ⓐ Ⓒ   Ⓑ

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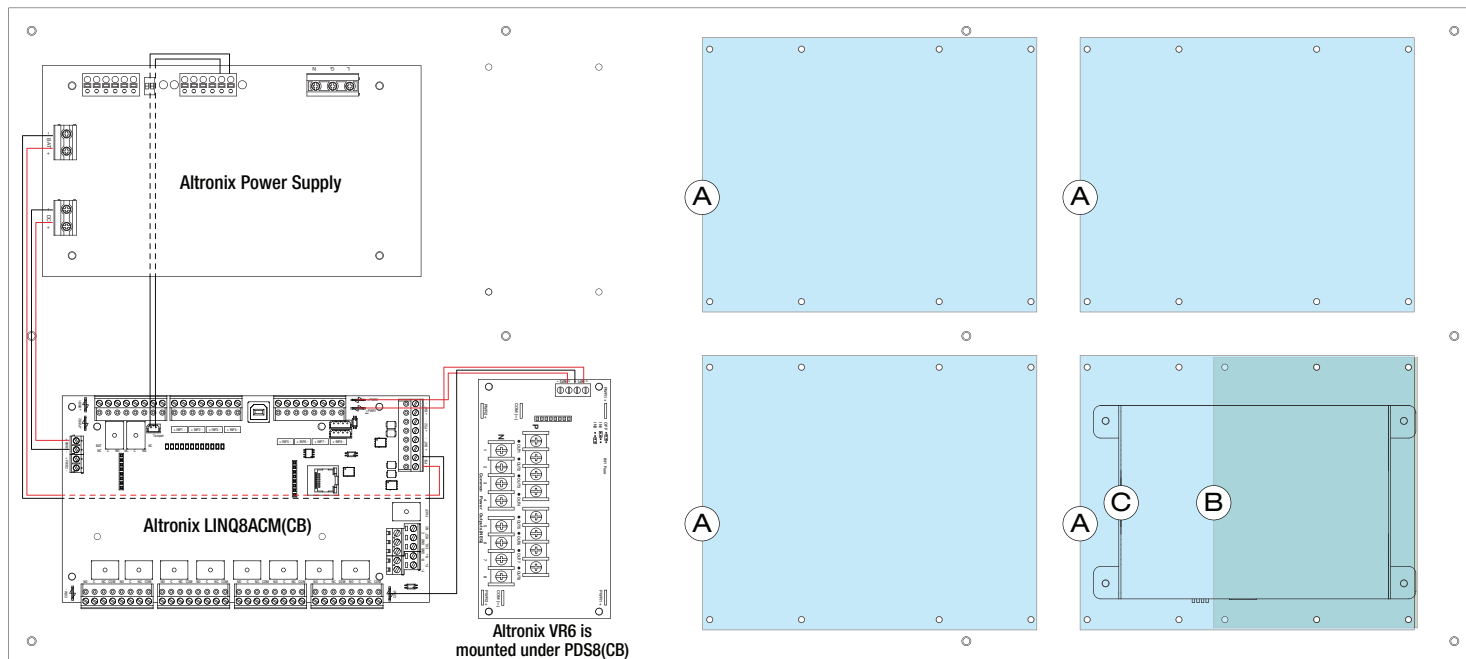
Dimensions and Drawing

Dimensions (H x W x D approximate)
3.375" x 19.0" x 33.25" (85.8mm x 482.6mm x 844.6mm)

1.5"
(38.1mm)

0.7180
(18.24mm)

15.1329" (384.4mm)

15.053" (382.35mm)

0.6293" (15.98mm)

5.342"
(135.69mm)

0.5168" (13.13mm)

4.1882"
(106.38mm)

4.5048"
(114.42mm)

11.2021"
(284.53mm)

39.7617"
(1,009.95mm)