Altronix®

T2MK3F4Q (Kit)
Access & Power Integration Solution for Mercury

TROVE™

Altronix T2MK3F4Q kit consists of Trove2 enclosure and TM2 Altronix & Mercury backplane with 12VDC or 24VDC (factory set at 24VDC) @ 6A power supply/charger, Network communication module, 12VDC voltage regulator, eight (8) fuse protected output dual voltage power distribution module and four (4) fuse protected output access control module. This kit also accommodates various combinations of Mercury* boards for up to four (4) 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

MERCURY™ SECURITY

T2MK3F4Q

Mercury boards are not included

Key Features

- 12VDC or 24VDC power supply/charger
- Accommodates the following Mercury controllers:
  Mercury: LP1501, LP1502, LP2500, LP4502, MR16IN, MR16OUT, MR50, MR52, MR62e, MUX8
- Convenient knockout configuration:
  - One (1) single knockout 2.415" (2" Conduit)
  - Sixteen (16) double knockouts
    1.362" (1" Conduit) / 1.115" (3/4" Conduit)
- Supervision
  - AC Fail
  - Low Battery and Battery Presence
  - Low power shutdown

- Management interface for up to two (2) eFlow power supply/chargers
- 16 AWG galvanized steel backplane simplifies board layout and wire management
- 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 four (4) 12VDC/12AH batteries
- Lifetime Warranty*

*Altronix Power Supply/Chargers and Sub-Assemblies only

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Specifications

Power Supply/Charger (eFlow6NB):

Input

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

Output

Voltage	24VDC
Current	6A continuous
Auxiliary	1A (unswitched)
Other	Overvoltage protection. Filtered and regulated

Battery Charging

Capacity	12VDC/12AH (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

Network Communication Module (LINQ2):

Status Monitoring
 AC status; Output current draw; Unit's temperature;
 DC output voltage; Low Battery/Battery presence detection
 Input trigger state change; Output (relay and power supply) state change

Programming
 Battery service date indication
 Programmable via USB or web browser
 Automated timed events:
 - Control output relays and power supply via flexible timing parameter

Reporting
 Programmable dashboard notifications
 E-mail notification selectable by event
 Event log tracks history (100+ events)

Indicators (LED)
 Blue LED: Power ON

Voltage Regulator (VR6):

Input

Voltage	24VDC from eFlow6NB

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 eFlow6NB and 12VDC from VR6
Input Fuses	10A/250V

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

Access Power Controller (ACM4):

Input

Voltage	24VDC from eFlow6NB
Input Fuse	10A/32V

Outputs

Voltage	24VDC.

 Four (4) independently controlled fused 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 Fuses	3A/32V

Indicators (LED)

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

T2MK3F4Q 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: 27.25" x 21.5" x 6.5" (692.2mm x 546.1mm x 165.1mm)
  Shipping: 32.5" x 26.5" x 11.125" (825.5mm x 673.1mm x 282.6mm)
 Weight (approx.)

Product	39.6 lb. (18 kg)
Shipping	43.35 lb. (19.66 kg)

 Temperature

Operating	0ºC to 49ºC (32ºF to 120ºF)
Storage	− 20ºC to 70ºC (− 4ºF to 158ºF)
Relative Humidity	85% +/− 5%
BTU/Hr (approx.):	87 BTU/Hr.

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Access Controller Position Chart for the Following Models:

Altronix/Mercury	Pem Mounting
LP2500, MUX8	A
LP1502, LP4502, MR52, MR16IN, MR16OUT	B
LP1501, MR62e	C
MR50	D

Altronix LINQ2

Altronix Power Supply

Altronix ACM4(CB)

Altronix PDS8(CB)

Altronix VR6 is mounted under PDS8(CB)

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.
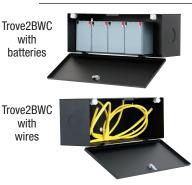These are ideal for wire management in our Trove series.

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.

BR1

BR1 - Sub-Assembly Mounting Bracket
Altronix BR1 mounting bracket is compatible with Altronix Maximal and Trove enclosures. It allows to mount one (1) PD4UL(CB), PD8UL(CB), ACM4(CB), MOM5, VR6, PDS8, NetWay5B or LINQ8PD(CB) sub-assembly on the enclosure's inside wall, saving valuable space.

Trove2BWC with batteries

Trove2BWC with wires

TROVE2BWC - Battery/Wire Trough Enclosure
Altronix Trove2BWC is a dual-purpose enclosure that can be used as wiring trough or battery cabinet when mounted above or below of the Trove2 integrated power and access solution.The knockouts on the Trove2BWC have been strategically placed to line up with the Trove2 allowing for easy conduit connections between cabinets.Trove2BWC includes cam locks and 2 tamper switches to ensure access to wiring and batteries is secure.

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Dimensions and Drawing

Dimensions (H x W x D approximate)

27.25" x 21.5" x 6.5" (692.2mm x 546.1mm x 165.1mm)

21.50" (546.1mm)

2.00" (50.8mm)

5.25" (133.35mm) — 3.5"(88.9mm) — 3.5"(88.9mm) — 5.25" (133.35mm)

2.00" (50.8mm)

1.25" (31.8mm)

0.5625" (14.3mm)

1.77" (45mm)

0.685" (17.4mm)

Knockouts
1.125" (28.3mm)

∅ 2.415" (61.3mm)   0.885" (22.5mm)

6.25" (158.8mm)

1.5" (38.1mm)

6.25" (158.8mm)

1.25" (31.8mm)

19.80" (502.9mm)

2.00" (50.8mm)

6.75" (171.5mm)

27" (685.8mm)

8.25" (209.5mm)

8.00" (203.2mm)

0.85" (21.6mm)

2.00" (50.8mm)

1.00" (25.4mm)

1.25" (31.8mm)

1.25" (31.8mm)

2.00" (50.8mm)

5.25" (133.4mm) — 7.00" (177.8mm) — 5.25" (133.4mm)

2.00" (50.8mm)