# Altronix®

T2MK7F8DV (Kit)

Access & Power Integration Solution for Mercury

TROVE™

Altronix T2MK7F8DV kit consists of Trove2 enclosure and TM2 Altronix & Mercury backplane with 24VDC @ 10A power supply/charger, 12VDC voltage regulator, eight (8) PTC protected output dual voltage power distribution module and eight (8) PTC protected output access control 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
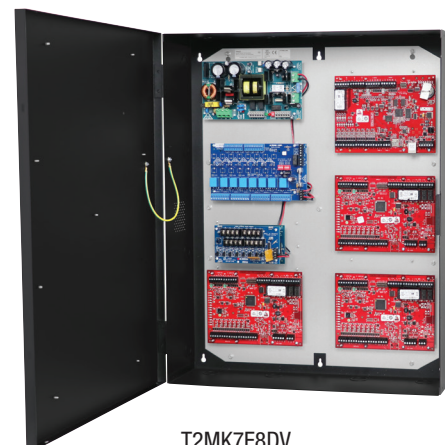
Mercury™

T2MK7F8DV

Mercury boards are not included

Key Features

- 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)

- 16 AWG galvanized steel backplane simplifies board layout and wire management
- Enclosure accommodates up to four (4) 12VDC/12AH batteries
- Supervision
  - AC Fail
  - Low Battery and Battery Presence
  - Low power shutdown
- CE European Conformity
- Lifetime Warranty*

Altronix Power Supply/Chargers and Sub-Assemblies only

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Specifications

Power Supply/Charger (eFlow104NBV):

Input
Voltage	220VAC (working range 198VAC - 256VAC), 50/60Hz, 2.7A
Input Fuse	6.3A/250V

Output
Voltage	24VDC
Current	10A 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	220VAC is present
DC Output	Powered
Battery	Discharged or not connected

Dual Input Power Distribution Module (PDS8CB):

Input
Voltage	24VDC from eFlow104NBV 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 eFlow104NBV

Output
Voltage	12VDC
Current	6A continuous
Other	Surge suppression

Indicators (LED)
Input	24VDC is present
Output	Powered

Access Power Controller (ACM8CB):

Input
Voltage	24VDC from eFlow104NBV
Input Fuse	10A/250V

Outputs
Voltage	24VDC

Eight (8) 24VDC 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

T2MK7F8DV Kit:

Agency Listings
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	40.1 lb. (18.2 kg)
Shipping	43.85 lb. (19.9 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.

Access Controller Position Chart for the Following Models:

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

Altronix Power Supply

Altronix ACM8(CB)

Altronix PDS8(CB)

Altronix VR6 is mounted under PDS8(CB)
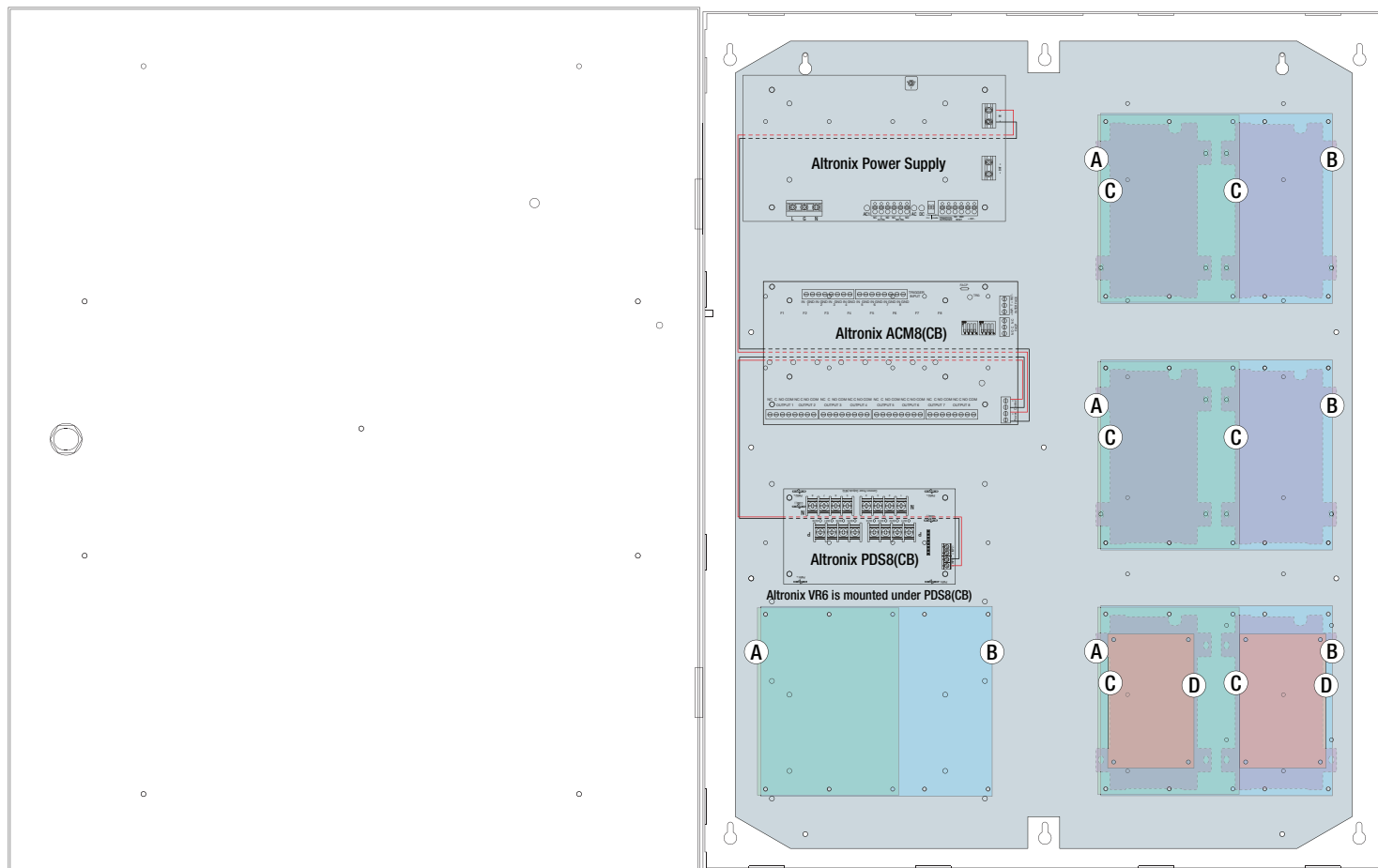
Accessories (order separately)

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

LINQ2

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.

WM5

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.

Mounting Magnet

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.

BR1

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)

Ø 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)