Altronix®

T2SH7F8PDQ (Kit)

Access & Power Integration Solution for Software House

TROVE™

Altronix T2SH7F8PDQ kit consists of Trove2 enclosure, TSH2 Software House/Altronix backplane with one (1) 24VDC @ 10A power supply/charger, one (1) 12VDC voltage regulator, one (1) dual input PTC access power controller and one (1) networked PTC access power controller.

This kit also accommodates various combinations of Software House boards for up to eight (8) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.

SOFTWARE HOUSE

T2SH7F8PDQ

Software House boards are not included

Key Features

- 24VDC power supply/charger
- Accommodates the following Software House controllers: iStar Ultra GCM, iStar Ultra GCM G2, iStar Ultra ACM and iStar Ultra ACM G2 boards or iSTAR Pro GCM and iSTAR ACM SE/PRO ACM boards, as well as I8, R8, and I8-CSI boards
- 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
- CE European Conformity
- 16 gauge galvanized steel backplane simplifies board layout and wire management
- 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 (eFlow104NB):

Input
Voltage	120VAC, 60Hz. 4.5A
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 (4 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

Dual Input Access Power Controller (ACMS8CB):

Input
Voltage	24VDC from eFlow104NB and 12VDC from VR6
Input PTCs	9A

Outputs
Voltage	12 or 24VDC individually selectable

Eight (8) selectable 12VDC - 24VDC 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 eFlow104NB

Output
Voltage	12VDC
Current	6A continuous
Other	Surge suppression

Indicators (LED)
Input	24VDC is present
Output	Powered

Network Power Distribution Module (LINQ8PDCB):

Input
Voltage	24VDC from eFlow104NB and 12VDC from VR6
Input Fuses	15A/32V

Outputs
PTC protected outputs
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 PTC:	2.5A

Status Monitoring
> Power Supply output voltage and load, Voltage and load of each output
> FACP trigger and reset status, Unit temperature (Celsius)
> Power Supply AC and Battery status, Battery health

Reporting:
> Windows Dashboard Alert messages
> E-mail notifications, Event Log tracks history

Indicators (LED)
Bat Local	Charging current status
FACP	Triggered / Released
Input	Input signal
Out1 - Out8	Output status

T2SH7F8PDQ 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	54.3 lb. (24.6 kg)
Shipping	59.3 lb. (26.9 kg)

Temperature
Operating	0ºC to 49ºC (32ºF to 120ºF)
Storage	– 20ºC to 70ºC (– 4ºF to 158ºF)
Relative Humidity	85% +/– 5%
BTU/Hr (approx.):	128 BTU/Hr.

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Access Controller Position Chart for the Following Models:

Software House	Pem Mounting
iStar Ultra GCM	Ⓐ
iStar Pro ACM, iSTAR ACM SE	Ⓑ
iStar Ultra ACM	Ⓒ
I8, R8 or I8-CSI	Ⓓ

Altronix Power Supply

RSB1

Altronix ACMS8(CB)

Altronix VR6 is mounted under ACMS8(CB)

Ⓐ

Ⓒ

Ⓑ

Ⓓ

Altronix LINQ8PD(CB)
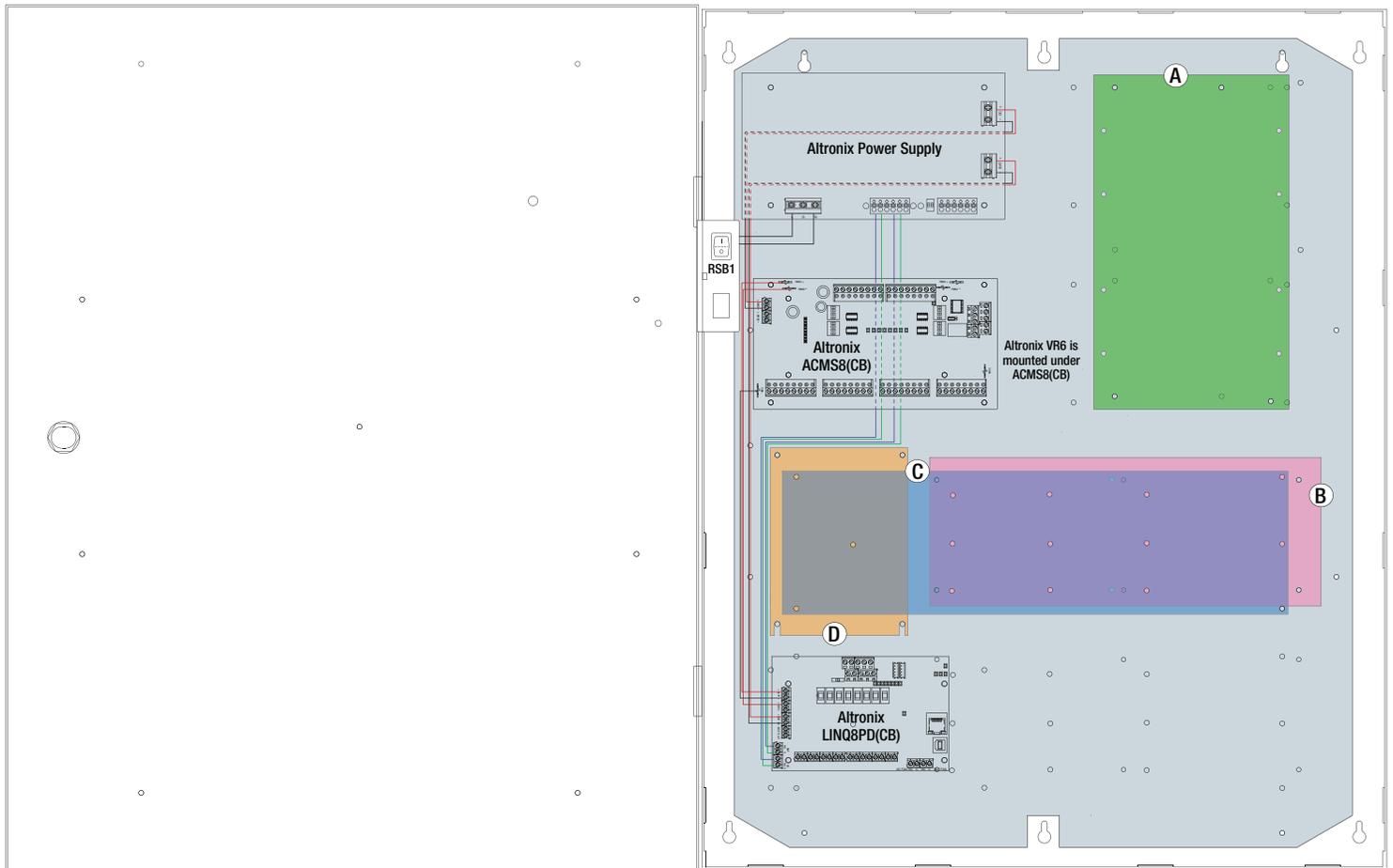
Accessories (order separately)

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.

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)

0.685" (17.4mm)

Knockouts 1.125" (28.3mm)

1.77" (45mm)

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)