Altronix®

T3SH775F24DPQ (Kit)

Access & Power Integration Solution for Software House

TROVE™

Altronix T3SH775F24DPQ kit consists of Trove3 enclosure and TSH3 Software House/Altronix backplane with two (2) 24VDC @ 10A and one (1) 12VDC @ 10A power supply/chargers, three (3) eight (8) PTC protected dual input access control modules and one (1) eight (8) PTC protected output managed power distribution module. This kit also accommodates various combinations of Software House boards for up to twenty-four (24) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.

SOFTWARE HOUSE

T3SH775F24DPQ

Software House boards are not included

Key Features

- 24VDC and 12VDC power supply/chargers

- 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)
  - Two (2) double knockouts
    1.948" (1.5" Conduit) / 1.701" (1.25" Conduit)
  - Thirteen (13) 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 1 & 2 (eFlow104NB):

Input

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

Output

Voltage	24VDC @ 10A
Auxiliary	1A (unswitched)
Protection	Overvoltage protection. Filtered and regulated

Power Supply 3 (eFlow102NB):

Input

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

Output

Voltage	12VDC @ 10A
Auxiliary	1A (unswitched)
Protection	Overvoltage protection. Filtered and regulated

All Power Supplies:

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

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 71-73% for 12V units and 70-75% for 24V units (depending on the power supply) Prevents deep battery discharge

Indicators (LED)

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

Three (3) Dual Input Access Power Controllers (ACMS8CB):

Input

Voltage	24VDC from eFlow104NB and 12VDC from eFlow102NB
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

Network Power Distribution Module (LINQ8PDCB):

Input

Voltage	12VDC from eFlow102NB
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 PTCs:	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

Programming Features:

Power Supply(ies) voltage and load limits (High/Low)
FACP trigger type (wet or dry-NO/NC)
Input Function (FACP reset/tamper)
Output Reset Trigger (NO/NC)
Battery Monitor Configuration:
  - Battery condition (Low/Normal/Missing)
  - Service Date
Configurable Output Relay(s).
Individual Output Configuration:
  - Device ID
  - Voltage and Current Limits (High/Low)
  - FACP Trigger Setting (latching/non-latching/inactive)
  - Battery Backup

Fire Alarm Interface:

Supervised FACP disconnect (Latching or Non-Latching)
FACP reset (NC or NO)

T3SH775F24DPQ Kit:

Agency Listings

CE	European Conformity

Physical and Environmental

Dimensions (H x W x D)

Enclosure:	36.12" x 30.125" x 7.06" (917.5mm x 768.1mm x 179.3mm)
Shipping:	40.75" x 35.25" x 12" (1035.1mm x 895.4mm x 304.8mm)

Weight (approx.)

Product	84.2 lb. (38.2 kg)
Shipping	97.5 lb. (44.22 kg)

Temperature

Operating	0ºC to 49ºC (32ºF to 120ºF)
Storage	− 20ºC to 70ºC (− 4ºF to 158ºF)
Relative Humidity	85% +/− 5%
BTU/Hr (approx.):	265 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 24VDC Power Supply

RSB2

Altronix 24VDC Power Supply

Altronix 12VDC Power Supply

RSB1

Altronix ACMS8(CB)
24VDC, 10A total

Altronix ACMS8(CB)

24VDC, 10A total are shared
between ACMS8(CB)s

Altronix ACMS8(CB)

Altronix LINQ8PD(CB)
12VDC, 10A total

Ⓐ Ⓑ Ⓒ Ⓓ
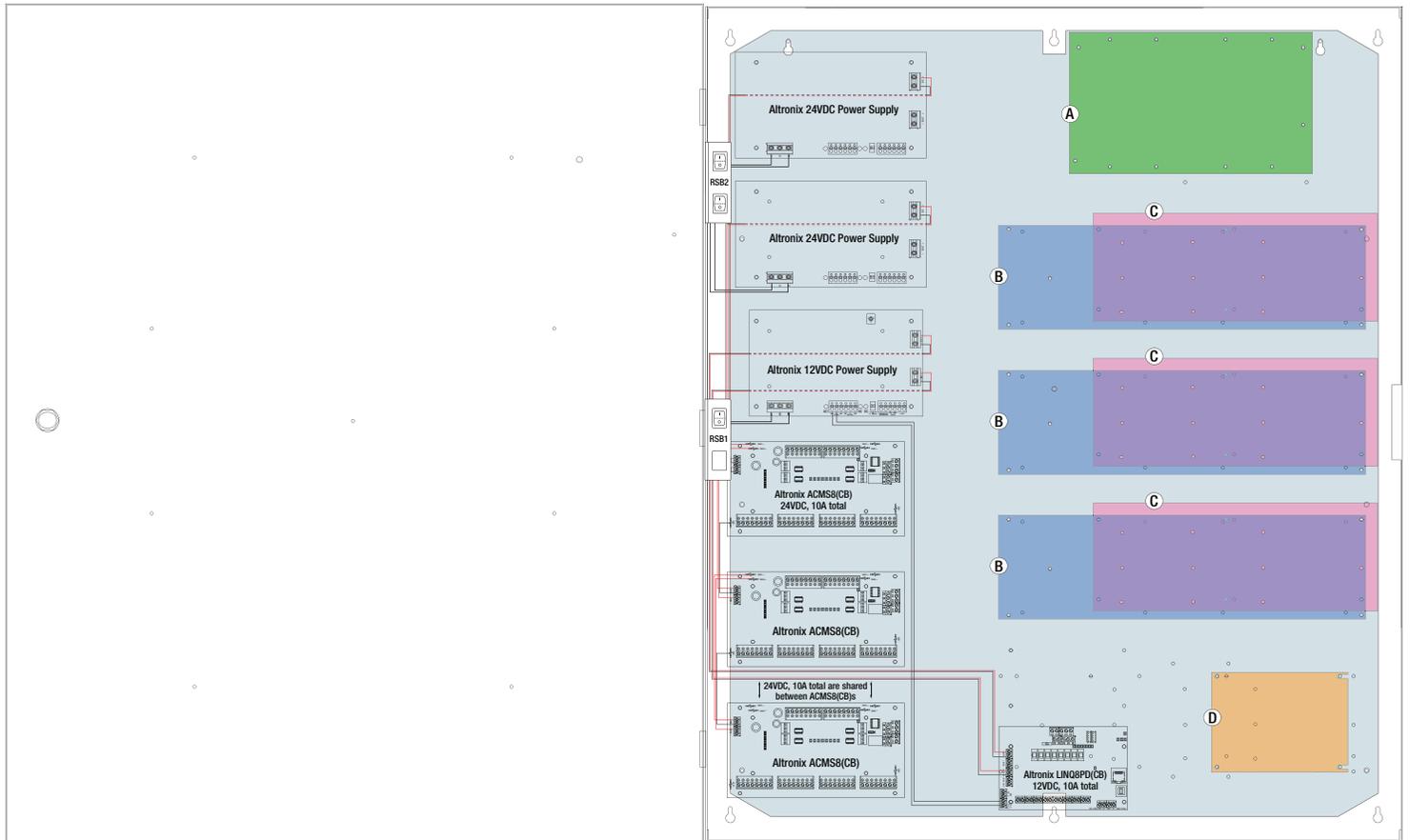
Accessories (order separately)

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
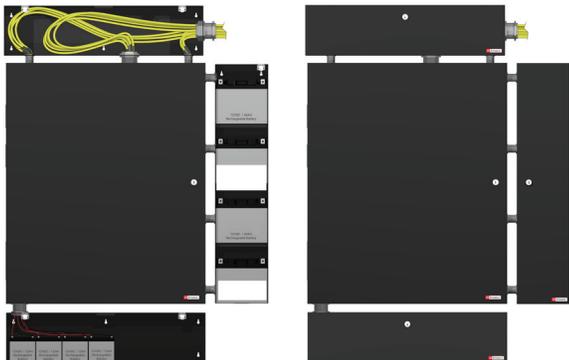
TROVE3BWC / TROVE3SWC - Battery/Wire Trough Enclosure

Altronix Trove3BWC and Trove3SWC are dual-purpose enclosures that can be used as wiring troughs or battery cabinets when mounted above or below (Trove3BWC) or on either side (Trove3SWC) of the Trove integrated power and access solution. The knockouts on the Trove3BWC and Trove3SWC have been strategically placed to line up with the Trove3 allowing for easy conduit connections between cabinets.Trove3BWC and Trove3SWC include cam locks and 2 tamper switches each to ensure access to wiring and batteries is secure.

Typical battery/wiring setup with Trove3 Enclosure (not included)

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Dimensions and Drawing

Dimensions (H x W x D approximate)
36.12" x 30.125" x 7.06" (917.5mm x 768.1mm x 179.3mm)