Altronix®

T3SK75F8D (Kit)

Access & Power Integration Solution for Software House

TROVE™

Altronix T3SK75F8D kit consists of Trove3 enclosure and TSH3 Software House/Altronix backplane with 24VDC @ 10A and 12VDC @ 10A power supply/chargers, eight (8) PTC protected output access control module and eight (8) PTC protected output power distribution module. 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

T3SK75F8D

Software House boards are not included

Key Features

- Accommodates the following Software House controllers:
  iStar Ultra GCM and iStar Ultra ACM 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)
  - One (1) double knockout
    1.948" (1.5" Conduit) / 1.701" (1.25" 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

- 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
- 16 AWG 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 (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 2 (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

Both Power Supplies:

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	

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

Power Distribution Module (PD8ULCB):

Input
Voltage	12VDC from eFlow102NB

Outputs
Voltage	12VDC
PTCs	2.5A

Indicators (LED)
Green LED	DC Output

Access Power Controller (ACM8CB):

Input
Voltage	24VDC from eFlow104NB
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

T3SK75F8D 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:
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.):	217 BTU/Hr.

Access Controller Position Chart for the Following Models:

Software House	Pem Mounting
iStar Pro GCM	Ⓐ
iStar Ultra GCM	Ⓑ
iStar Pro ACM, iSTAR ACM SE	Ⓒ
iStar Ultra ACM	Ⓓ
I8, R8 or I8-CSI	Ⓔ
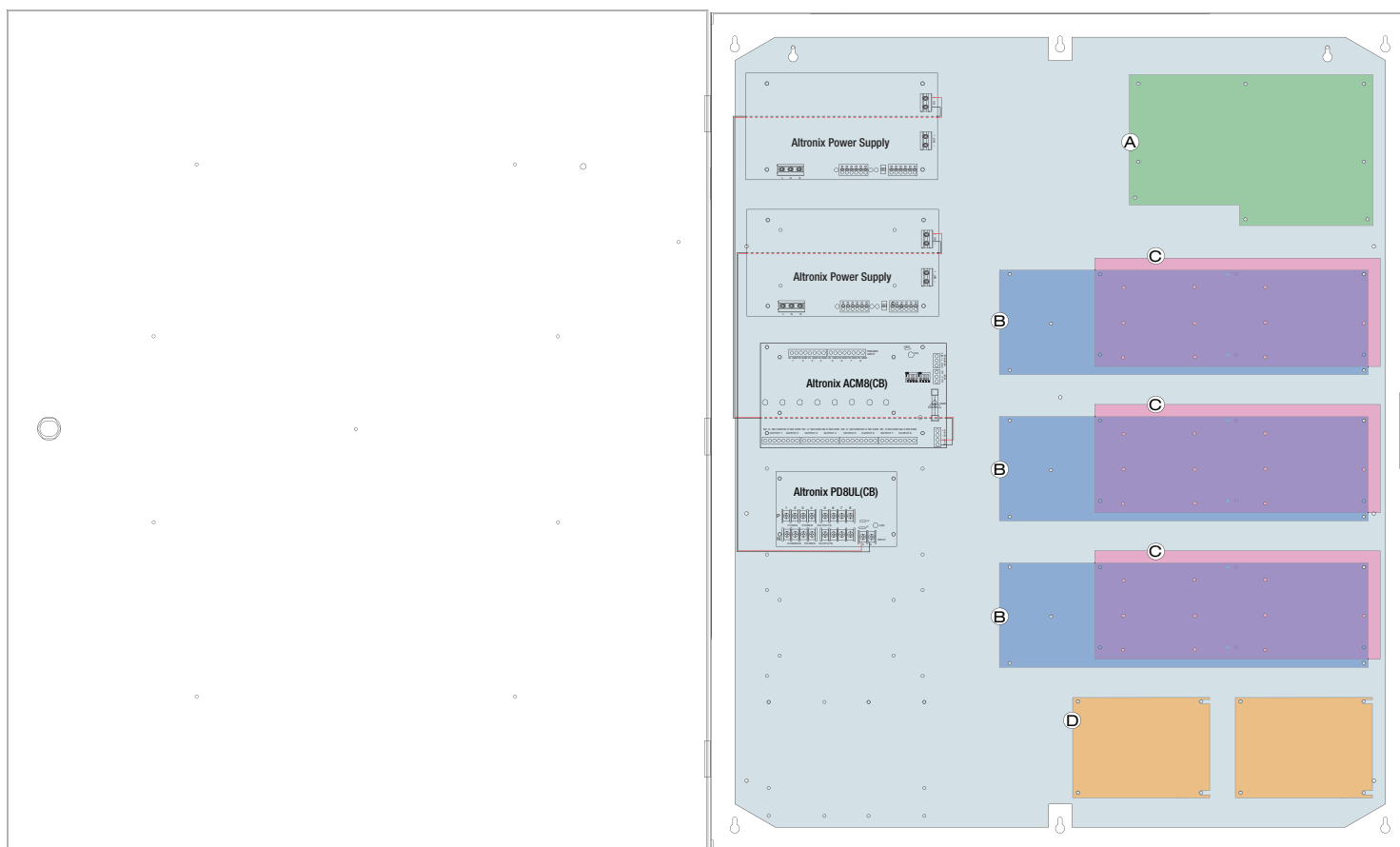
Accessories (order separately)

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
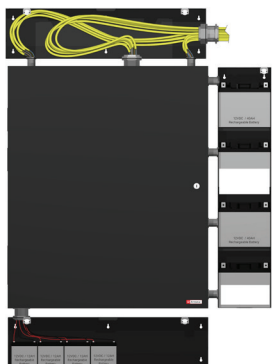
TROVE3BWC / TROVE3SWC - Battery/Wire Trough Enclosure
Altronix Trove3BWC and Trove3SWC are dual-purpose enclosures that can be used as wiring troughs or battery cabinets when mounted above or below (Trove3BWC) or on either side (Trove3SWC) of the Trove integrated power and access solution. The knockouts 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)

![Altronix® logo]

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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)

Top view dimensions:
- 2.00" (50.8mm)
- 7.12" (222.3mm)
- 9.5" (241.3mm)
- 9.5" (241.3mm)
- 1.25" (31.8mm)
- 1.78" (45.2mm)
- 1.55" (39.4mm)

Conduit labels (top): 1" Conduit, 3/4" Conduit, 1.25" Conduit, 1.5" Conduit, 2" Conduit, 1.5" Conduit, 1.25" Conduit

Left side view:
- 2.00" (50.8mm)
- 1.25" (31.8mm)
- 10.75" (273.1mm)
- 10.62" (269.8mm)
- 10.75" (273.1mm)
- 1" Conduit
- 3/4" Conduit
- G / G

Main panel:
- 1.07" (27.2mm)
- 30.12" (768.1mm)
- 14.01" (355.9mm)
- 14.01" (355.9mm)
- 1.10" (27.9mm)
- 33.63" (854.2mm)

Right side view:
- 2" (50.8mm)
- 10.75" (273.1mm)
- 10.62" (269.8mm)
- 10.75" (273.1mm)
- 36.12" (917.5mm)
- 1" Conduit
- 3/4" Conduit
- 1.25" (31.8mm)
- 7.06" (179.3mm)

Bottom view:
- 3/4" Conduit
- 1" Conduit
- 1.25" (31.8mm)
- 2" (50.8mm)
- 8.75" (222.3mm)
- 8.62" (219mm)
- 8.75" (222.3mm)