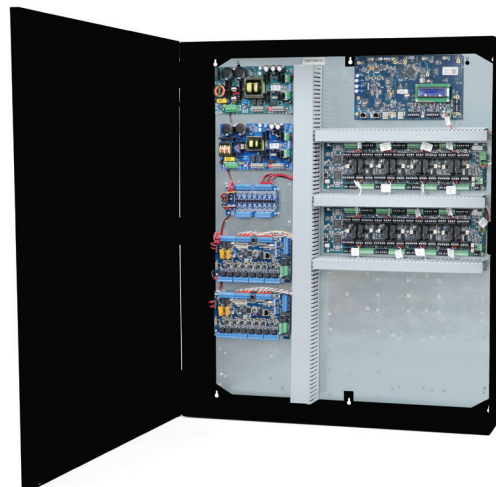# Altronix®

T3SH75XK1DQ (Pre-wired Kit)
Access and Power Integration Solution for Software House

TROVE PLUS

Altronix T3SH75XK1DQ is a 16-door access and power integration kit which includes Altronix power and sub-assemblies along with factory installed wire management and wire assemblies that are pre-configured with terminal blocks for Software House hardware. This unit provides ample power and dual voltage outputs to support Software House platform controllers and locking devices. The T3SH75XK1DQ accommodates up to one (1) iStar Ultra GCM/GCM G2 Controller and two (2) iStar Ultra ACM. Trove Plus simplifies field installations and provides reliable, robust critical power and control for the most demanding applications.

SOFTWARE HOUSE

T3SH75XK1DQ - includes eFlow104NB, eFlow102NB, 2 - LINQ8ACMCB and PDS16CB with finger duct and wire harnesses for iStar Ultra GCM/ iStar Ultra GCM G2 and 2 - iStar Ultra ACM

Software House boards are not included

Key Features

- Accommodates the following Software House controllers:
  1 - iStar Ultra GCM/ iStar Ultra GCM G2 and 2 - iStar Ultra ACM
- Programmable Features:
  - Fail-safe, fail-secure or auxiliary outputs
  - High & low voltage & current monitoring by output
  - Battery back-up by output
  - Any combination of the above
  - Monitor power supply(ies) input for voltage & current limits
  - Programmable timer events, user levels
  - Enable or disable alerts by type
  - Programmable alert reporting delay
- Unit includes:
  - Removable backplane
  - 2" high finger duct for wire management
  - Custom wire assemblies for power distribution with terminal blocks for controller connections

- 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
- 16 AWG galvanized steel backplane simplifies board layout and wire management
- Enclosure accommodates up to four (4) 12VDC/12AH batteries
- CE European Conformity
- Lifetime Warranty*

Altronix Power Supply/Chargers and Sub-Assemblies only

Altronix®

T3SH75XK1DQ (Pre-wired Kit)
Access and Power Integration Solution for Software House

TR□VE ™
+PLUS

Specifications

Power Supply/Charger 1 (eFlow104NB):

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

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

Power Supply/Charger 2 (eFlow102NB):

Input
Voltage	120VAC, 60Hz, 3.5A
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

Dual Input Power Distribution Modules (PDS16CB):

Input
Voltage	24VDC from eFlow104NB and
	12VDC from eFlow102NB
Input PTCs	9A

Outputs
Voltage	12VDC and/or 24VDC

Any of the sixteen (16) 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	Sixteen (16) individual output LEDs
Green:	12VDC
Red:	24VDC

Two (2) Network Access Power Controllers (LINQ8ACMCB):

Input
Voltage	24VDC from eFlow104NB and
	12VDC from eFlow102NB
Input PTCs	9A

Outputs
PTC protected power-limited 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

Programming Features:
Eight (8) Programmable Outputs:
- Fail-safe, fail-secure or auxiliary outputs
- Input controlled or manually controlled through software
- High (over) and low (under) voltage and current monitoring by output
- Multiple outputs may be programmed to be triggered by a single input
- Battery back-up by output

Eight (8) Programmable Trigger Inputs:
- Normally open (NO), Normally closed (NC) or Open collector sink inputs
- Wet Input (5VDC - 24VDC) with 10k resistor
- Any combination of the above

Other Programmable Trigger Inputs:
- Monitor power supply(ies) input for voltage and current limits (high/low)
- Input and output current calibration, Programmable timer events
- Programmable user levels, Enable or disable alerts by type
- Programmable alert reporting delay

Indicators (LED)
Green AC LED:	indicates AC trouble condition
Green BAT LED:	indicates battery trouble condition
Green FACP LED:	indicates FACP disconnect
is triggered	
Flashing Blue Heartbeat LED:	indicates network connection
Individual OUT1 - OUT8 Red LEDs:	indicate outputs are triggered
Individual Voltage LEDs:	indicate 12VDC (Green) or 24VDC (Red)

T3SH75XK1DQ Kit:

Agency Listings
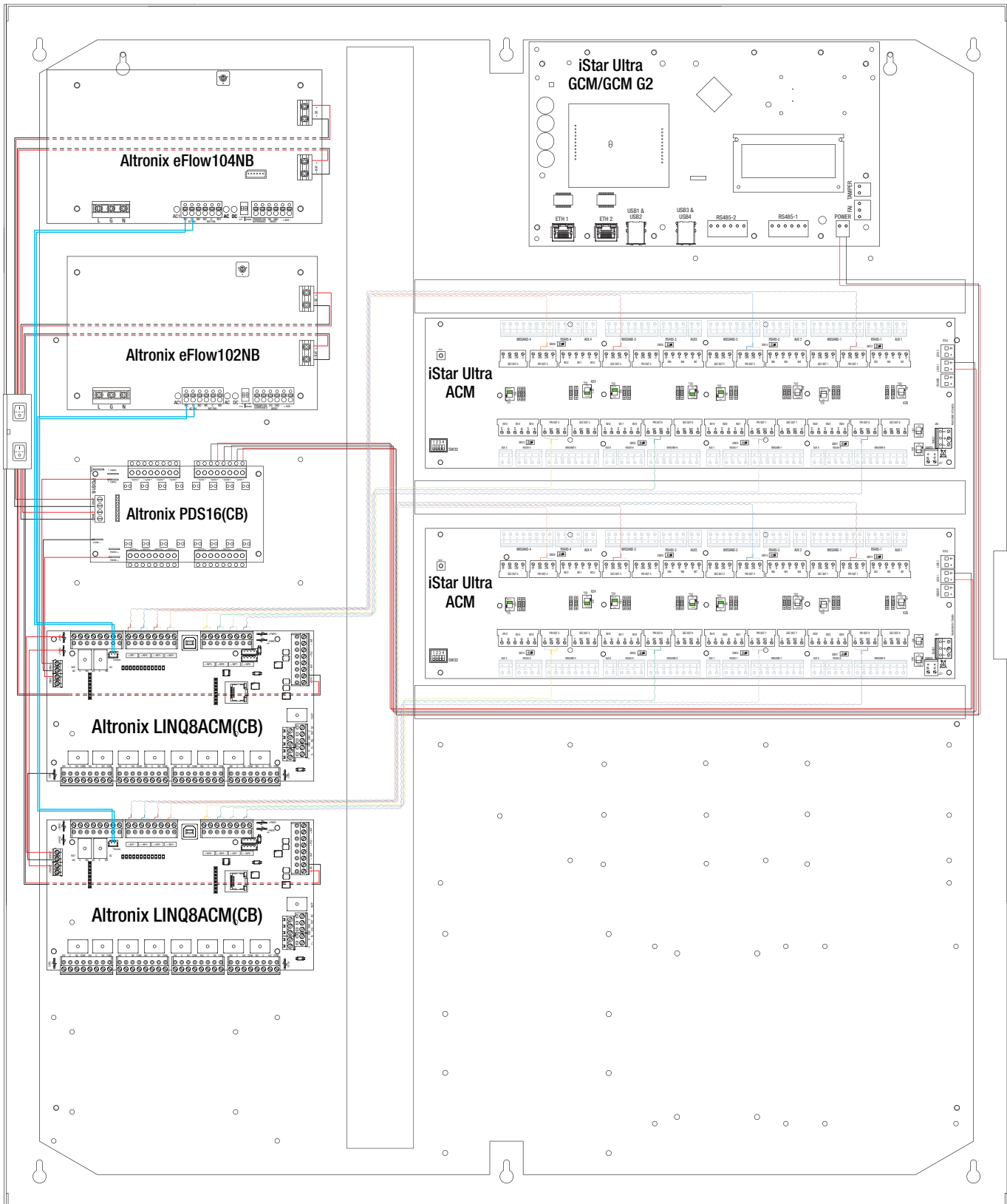|	
CE	European Conformity

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:	95.6 lb. (43.36 kg)
Shipping:	108.8 lb. (49.35 kg)

Temperature
Operating	0ºC to 49ºC (32ºF to 120ºF)
Storage	– 20ºC to 70ºC (– 4ºF to 158ºF)
Relative Humidity	85% +/– 5%
BTU/Hr. (approx.):	289 BTU/Hr.

Altronix®

T3SH75XK1DQ (Pre-wired Kit)
Access and Power Integration Solution for Software House

TROVE PLUS

Altronix eFlow104NB

Altronix eFlow102NB

Altronix PDS16(CB)

Altronix LINQ8ACM(CB)

Altronix LINQ8ACM(CB)

iStar Ultra GCM/GCM G2

ETH 1 | ETH 2 | USB1 & USB2 | USB3 & USB4 | RS485-2 | RS485-1 | POWER | TAMPER | FN

iStar Ultra ACM

iStar Ultra ACM

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
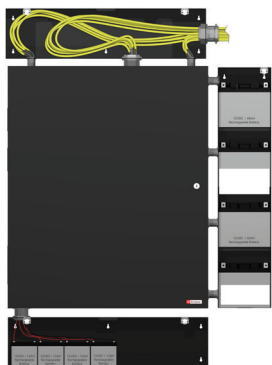
MM4, MM8, MM12, MM24 - Magnetic Mounting Solution
Altronix mounting magnets accommodate screws and nylon standoffs to allow for mounting various boards/accessories in any metal enclosure or backplane.

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.

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®

T3SH75XK1DQ (Pre-wired Kit)
Access and Power Integration Solution for Software House

TROVE PLUS

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:
- 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)
- 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)
- 1" Conduit
- 3/4" Conduit
- 10.75" (273.1mm)
- 10.62" (269.8mm)
- 10.75" (273.1mm)

Front view:
- 1.07" (27.2mm)
- 30.12" (768.1mm)
- 14.01" (355.9mm)
- 14.01" (355.9mm)
- 1.10" (27.9mm)
- 33.63" (854.2mm)
- G
- G

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

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)