

T3SH777XK1DQ (Pre-wired Kit)

Access and Power Integration Solution for Software House



Altronix T3SH777XK1DQ is a 24-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 T3SH777XK1DQ accommodates up to one (1) iStar Ultra GCM/GCM G2 and three (3) iStar Ultra ACM. Trove Plus simplifies field installations and provides reliable, robust critical power and control for the most demanding applications.

SOFTWARE HOUSE



T3SH777XK1DQ includes 3 - eFlow104NB, 3 - LINQ8ACMCB, 3 - VR6, 2 - PDS16CB and 1 - NetWay5B with finger duct and wire harnesses for iStar Ultra GCM/iStar Ultra GCM G2 and 3 - iStar Ultra ACM

Software House boards are not included

Key Features

- Accommodates the following Software House controllers:
 - 1 - iStar Ultra GCM/GCM G2 and 3 - 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*

Specifications

Three (3) Power Supplies (eFlow104NB):

Input	
Voltage	120VAC, 60Hz, 13.5A max
Input Fuse	6.3A/250V
Output	
Voltage	24VDC @ 10A
Auxiliary	1A (unswitched)
Protection	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	

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 70-75% for 24V units (depending on the power supply). Prevents deep battery discharge

Indicators (LED)

AC Input	120VAC is present
DC Output	24VDC is present
Battery	Discharged or not connected

Three (3) Network Access Power Controllers (LINQ8ACMCB):

Input	
Voltage	24VDC from eFlow104NB and 12VDC from VR6
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)

Three (3) Voltage Regulators (VR6):

Input	
Voltage	24VDC from eFlow104NB
Output	
Voltage	12VDC
Current	6A continuous
Other	Surge suppression
Indicators (LED)	
Input	24VDC is present
Output	Powered

Two (2) Dual Input Power Distribution Modules (PDS16CB):

Input	
Voltage	24VDC from eFlow104NB and 12VDC from VR6
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

5-Port Hardened Switch (NetWay5B):

Input	24VDC, current draw: 150mA
Ethernet Ports:	Five (5) 10/100/1000 Mbps data ports
	Connectivity: RJ45, auto-crossover
	Wire type: 4-pair CAT5 or better structured cable
	Distance: up to 100m
	Speed: 10/100/1000 Mbps, half/full duplex, auto negotiation

Indicators (LED)

Individual PoE On LEDs for each port
Individual IP Link status, 10/100Base-T/active LEDs for each port

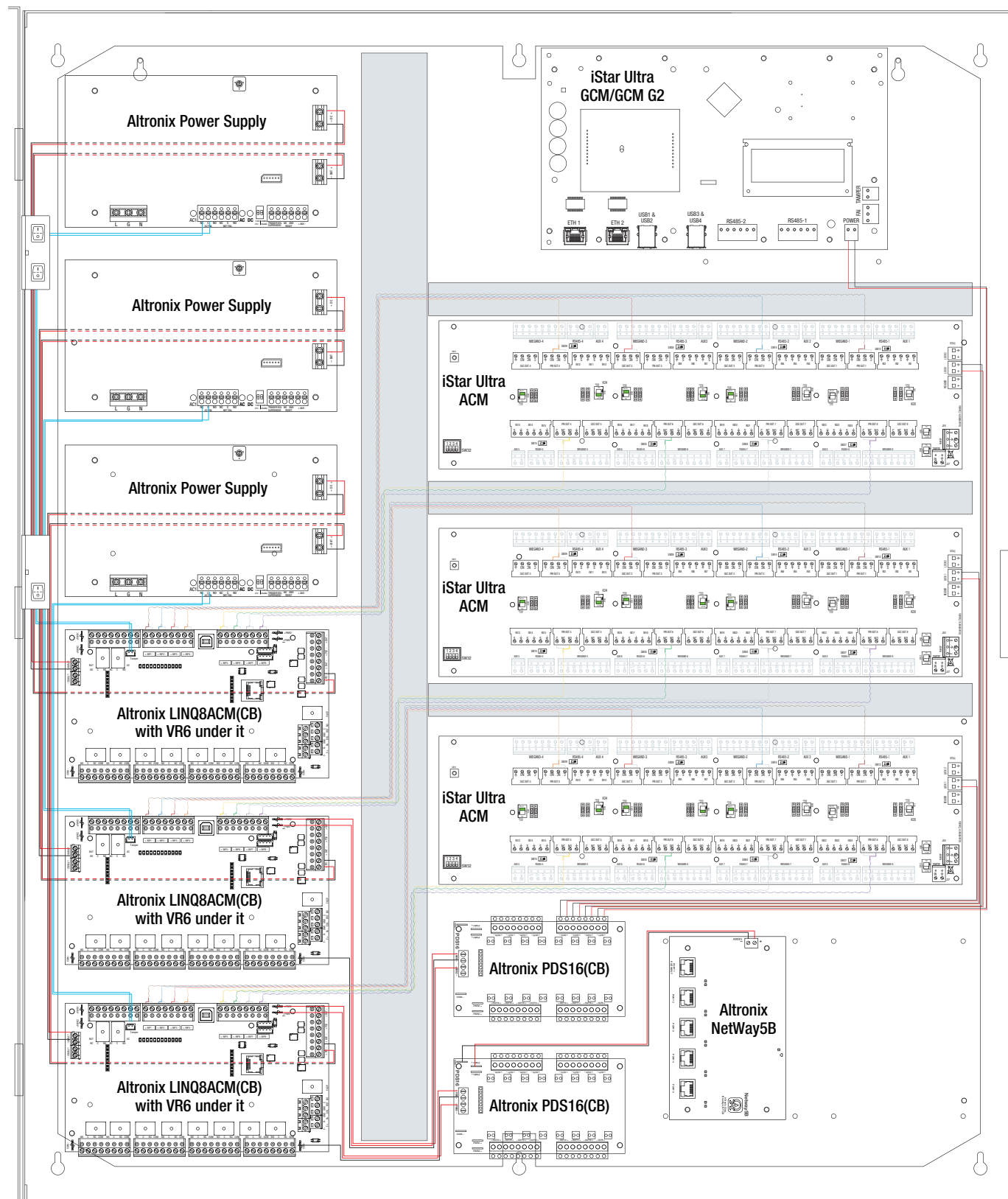
T3SH777XK1DQ Kit:

Agency Listings

CE	European Conformity
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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:	99.6 lb. (45.18 kg)
Shipping:	112.8 lb. (51.17 kg)
Temperature	
Operating	0°C to 49°C (32°F to 120°F)
Storage	- 20°C to 70°C (- 4°F to 158°F)
Relative Humidity	85% +/- 5%
BTU/Hr. (approx.):	289 BTU/Hr.



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

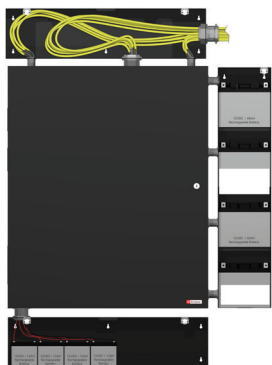
Altronix mounting magnets accommodate screws and nylon standoffs to allow for mounting various boards/ accessories in any metal enclosure or backplane.



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)

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)

