Altronix®

Rev. 10232023

T3SH777XK1Q (Pre-wired Kit)

Access and Power Integration Solution for Software House

TROVE PLUS

Altronix T3SH777XK1Q 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 T3SH777XK1Q 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

T3SH777XK1Q includes 3 - eFlow104NB, 3 - LINQ8ACM, 3 - VR10, 2 - PDS16 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 gauge 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 Corporation | 140 58th St | Brooklyn, NY 11220 USA
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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 (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 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 (LINQ8ACM):

Input
- Voltage: 24VDC from eFlow104NB and 12VDC from VR10
- Input Fuses: 15A/32V

Outputs
- Fuse protected outputs
- Any of the eight (8) fuse protected power outputs are selectable to follow power Input 1 or Input 2
- Individual outputs may be set to OFF position for servicing
- Output Fuses: 3A/32V

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 (VR10):

Input
- Voltage: 24VDC from eFlow104NB

Output
- Voltage: 12VDC
- Current: 10A continuous
- Other: Surge suppression

Indicators (LED)
- Input: 24VDC is present
- Output: Powered

Two (2) Dual Input Power Distribution Modules (PDS16):

Input
- Voltage: 24VDC from eFlow104NB and 12VDC from VR10
- Input Fuses: 15A/32V

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 Fuses: 3A/32V

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

T3SH777XK1Q 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: 99.6 lb. (45.18 kg)
  - Shipping: 112.8 lb. (51.17 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.

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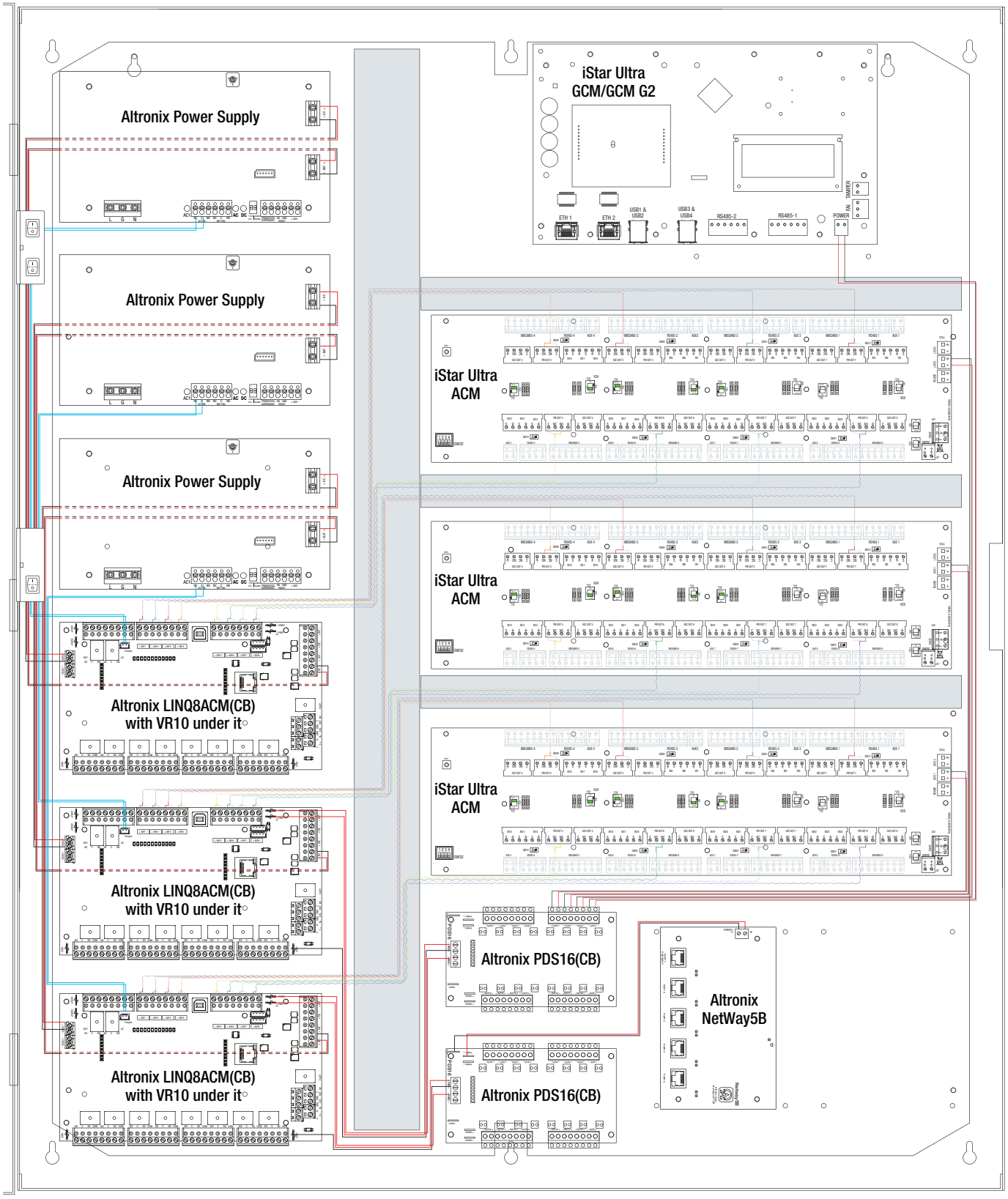

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Accessories (order separately)

WM5

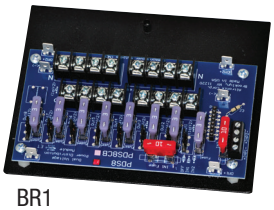
WM5, WM25, WM100 - Magnetic Cable Tie Mounts

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

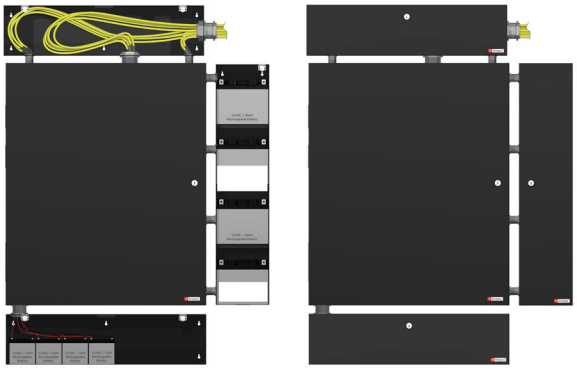
Altronix mounting magnets accommodate screws and nylon standoffs to allow for mounting various boards/ accessories in any metal enclosure or backplane.



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, VR10, PDS8, NetWay5B or LINQ8PD(CB) sub-assembly on the enclosure's inside wall, saving valuable space.



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

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.

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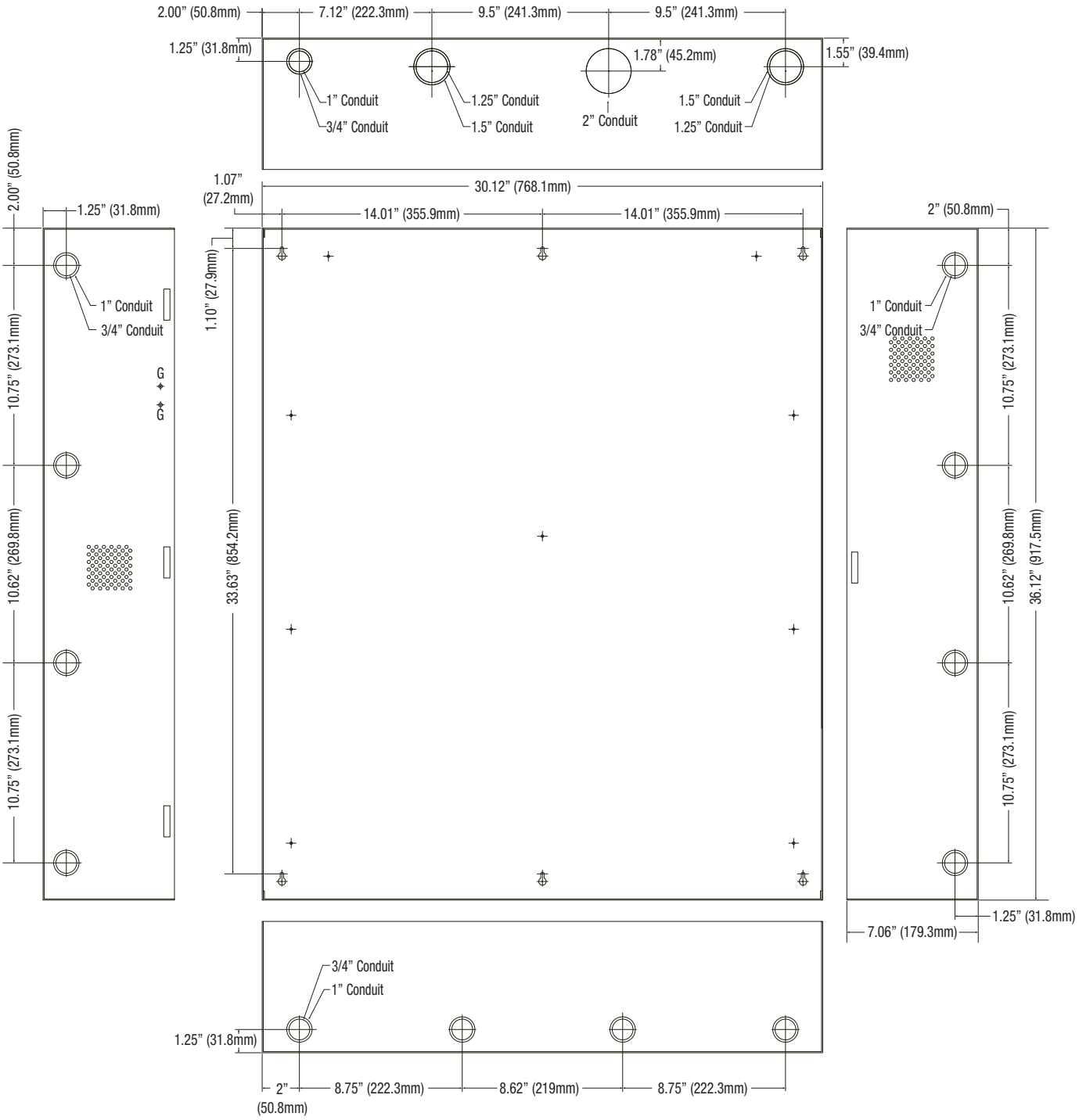
Dimensions and Drawing

Dimensions (H x W x D approximate)

36.12” x 30.125” x 7.06” (917.5mm x 768.1mm x 179.3mm)



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