

# T3SH75XK1D (Pre-wired Kit)

## Access and Power Integration Solution for Software House



Altronix T3SH75XK1D 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 T3SH75XK1D 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



T3SH75XK1D - includes eFlow104NB, eFlow102NB, 2 - ACMS8 and PDS16 with finger duct and wire harnesses for iStar Ultra GCM/ iStar Ultra GCM G2 and 2 - iStar Ultra ACM

### Key Features

- Accommodates the following Software House controllers:
  - 1 - iStar Ultra GCM/ iStar Ultra GCM G2 and 2 - iStar Ultra ACM
- 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)
  - 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
- 16 AWG galvanized steel backplane simplifies board layout and wire management
- Enclosure accommodates up to four (4) 12VDC/7AH batteries
- CE European Conformity
- Lifetime Warranty\*

*\*Altronix Power Supply/Chargers and Sub-Assemblies only*

## 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)<br>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 |

### Two (2) Dual Input Access Power Controllers (ACMS8CB):

#### Input

|            |                                                    |
|------------|----------------------------------------------------|
| Voltage    | 24VDC from eFlow104NB and<br>12VDC from eFlow102NB |
| Input PTCs | 9A                                                 |

#### 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             |

### Dual Input Power Distribution Module (PDS16CB):

#### Input

|            |                                                    |
|------------|----------------------------------------------------|
| Voltage    | 24VDC from eFlow104NB and<br>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                                                                             | 9A                 |

#### Indicators (LED)

|           |                                     |
|-----------|-------------------------------------|
| DC Output | Sixteen (16) individual output LEDs |
| Green:    | 12VDC                               |
| Red:      | 24VDC                               |

### T3SH75XK1D 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

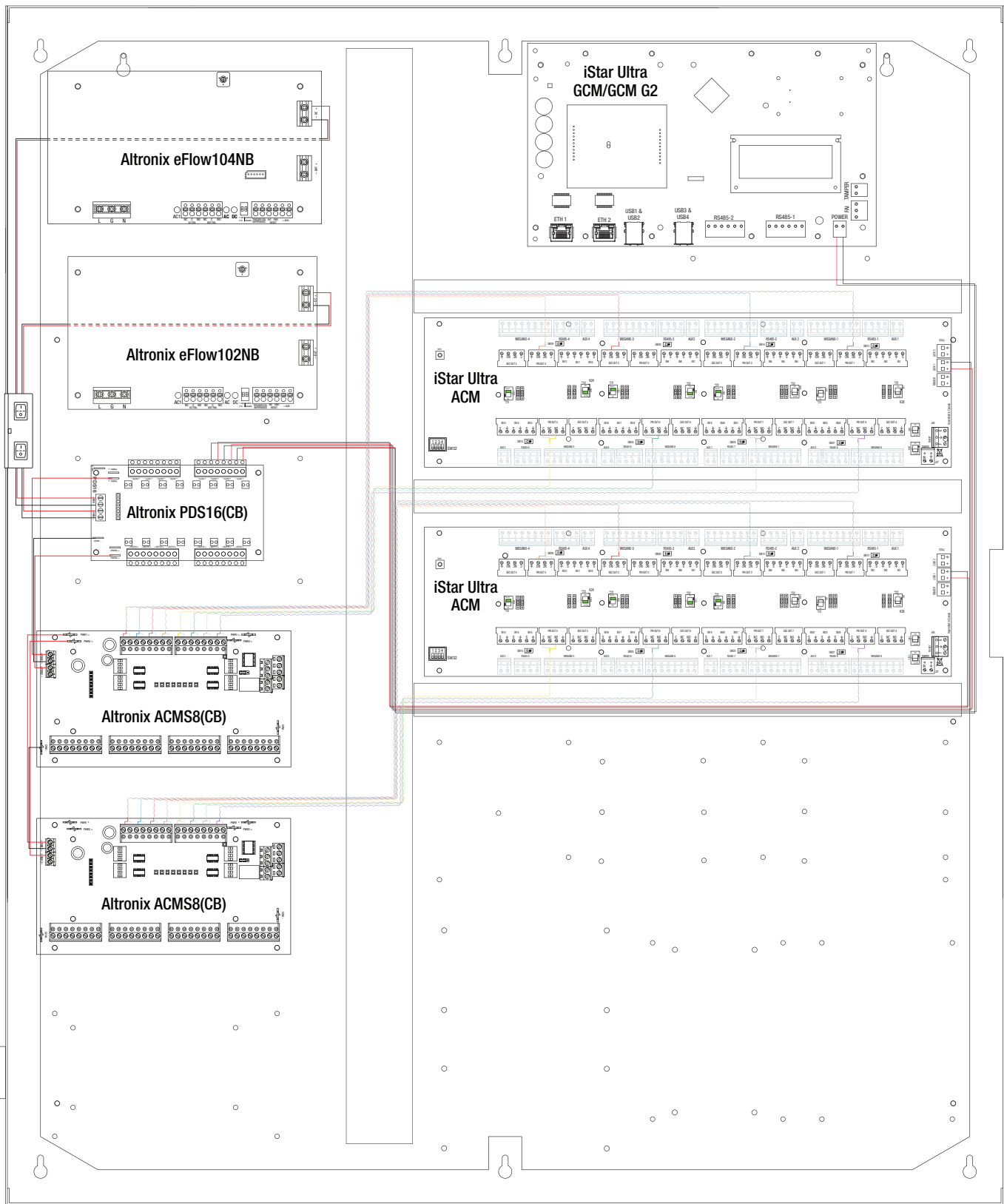
|           |                                 |
|-----------|---------------------------------|
| Operating | 0°C to 49°C (32°F to 120°F)     |
| Storage   | - 20°C to 70°C (- 4°F to 158°F) |

##### Relative Humidity

|            |
|------------|
| 85% +/- 5% |
|------------|

##### BTU/Hr. (approx.):

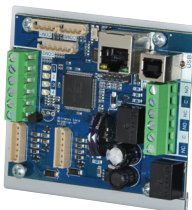
|             |
|-------------|
| 289 BTU/Hr. |
|-------------|



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**Accessories** (order separately)

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LINQ2

**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



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**

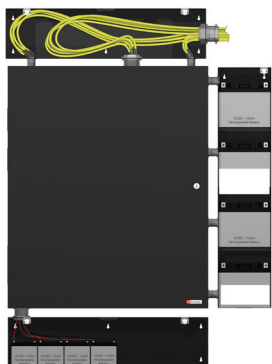
Altronix mounting magnets accommodate screws and nylon standoffs to allow for mounting various boards/ accessories in any metal enclosure or backplane.



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)

