

## T2SH7F8PQ (Kit)

Access & Power Integration Solution for Software House



Altronix T2SH7F8PQ kit consists of Trove2 enclosure, TSH2 Software House/Altronix backplane with one (1) 24VDC @ 10A power supply/charger, one (1) 12VDC voltage regulator, one (1) dual input fused access power controller and one (1) networked fused access power controller.

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



T2SH7F8PQ

*Software House boards are not included*

### Key Features

- 24VDC power supply/charger
- Accommodates the following Software House controllers: iStar Ultra GCM, iStar Ultra GCM G2, iStar Ultra ACM and iStar Ultra ACM G2 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)
  - Sixteen (16) double knockouts 1.362" (1" Conduit) / 1.115" (3/4" Conduit)
- Supervision
  - AC Fail
  - Low Battery and Battery Presence
  - Low power shutdown
- 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*

**Specifications**

**Power Supply/Charger (eFlow104NB):**

**Input**

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

**Output**

Voltage 24VDC  
 Current 10A continuous  
 Auxiliary 1A (unswitched)  
 Other 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

**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)**

Input 120VAC is present  
 DC Output Powered  
 Battery Discharged or not connected

**Dual Input Access Power Controller (ACMS8):**

**Input**

Voltage 24VDC from eFlow104NB and 12VDC from VR6  
 Input Fuses 15A/32V

**Outputs**

Voltage 12 or 24VDC individually selectable  
 Eight (8) selectable 12VDC - 24VDC independently controlled outputs or eight (8) independently controlled Form "C" relay outputs:  
 a) Fail-Safe and/or Fail-Secure power outputs  
 b) Form "C" Relays. 28VAC or VDC @ 2.5A Rated  
 c) Auxiliary power outputs (unswitched)  
 d) Any combination of the above

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

**Indicators (LED)**

Red LEDs Outputs are triggered (relays energized)  
 Blue LED FACP disconnect is triggered

**Individual voltage LEDs:**

Green: 12VDC  
 Red: 24VDC

**Voltage Regulator (VR6):**

**Input**

Voltage 24VDC from eFlow104NB

**Output**

Voltage 12VDC  
 Current 6A continuous  
 Other Surge suppression

**Indicators (LED)**

Input 24VDC is present  
 Output Powered

**Network Power Distribution Module (LINQ8PD):**

**Input**

Voltage 24VDC from eFlow104NB and 12VDC from VR6  
 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

**Status Monitoring**

Power Supply output voltage and load, Voltage and load of each output  
 FACP trigger and reset status, Unit temperature (Celsius)  
 Power Supply AC and Battery status, Battery health

**Reporting:**

Windows Dashboard Alert messages  
 E-mail notifications, Event Log tracks history

**Indicators (LED)**

Bat Local Charging current status  
 FACP Triggered / Released  
 Input Input signal  
 Out1 - Out8 Output status

**T2SH7F8PQ Kit:**

**Agency Listings**

CE European Conformity

**Physical and Environmental**

**Dimensions (H x W x D)**

Enclosure: 27.25" x 21.5" x 6.5" (692.2mm x 546.1mm x 165.1mm)  
 Shipping: 32.5" x 26.5" x 11.125" (825.5mm x 673.1mm x 282.6mm)

**Weight (approx.)**

Product 54.3 lb. (24.6 kg)  
 Shipping 59.3 lb. (26.9 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**

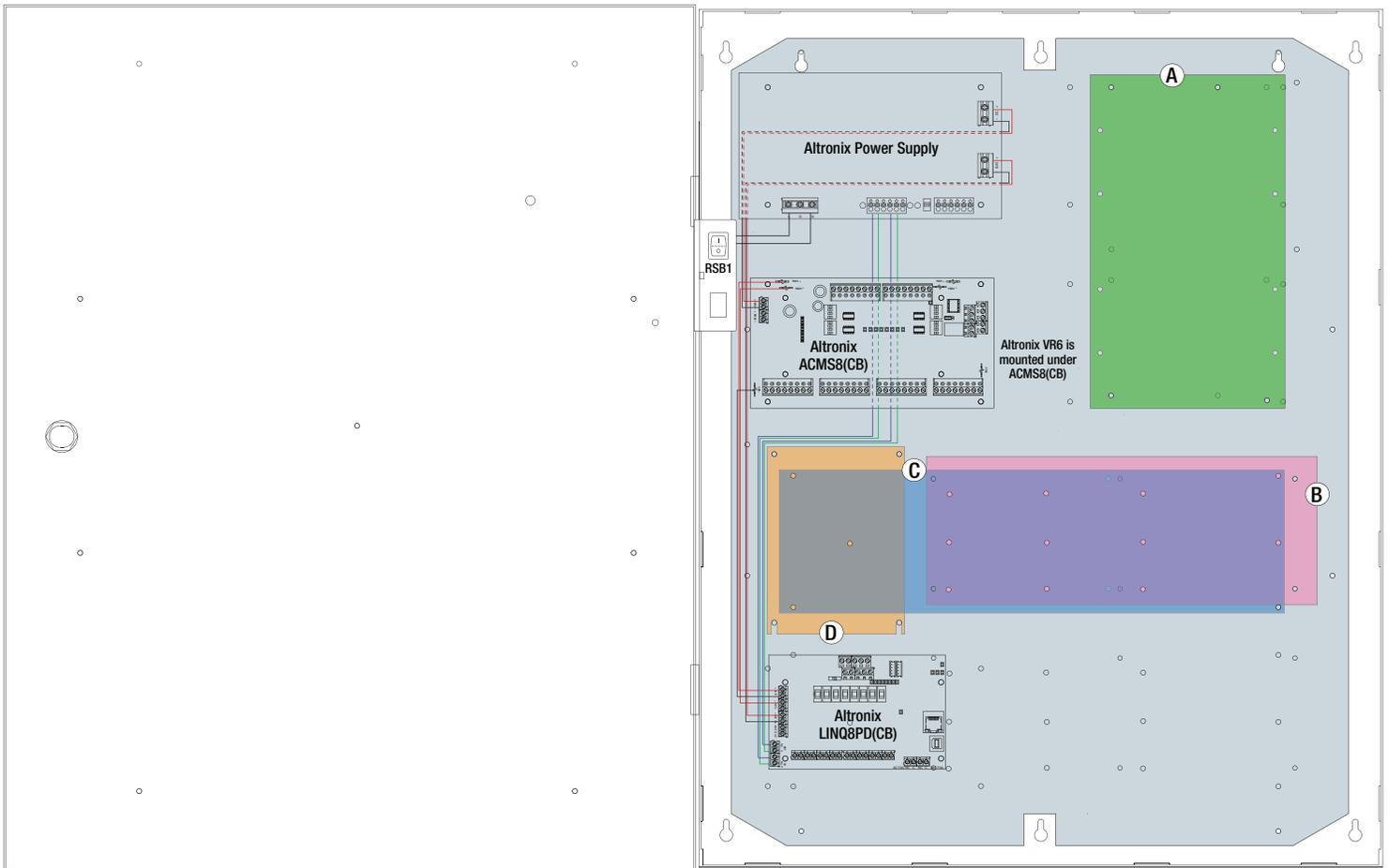
85% +/- 5%

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

128 BTU/Hr.

**Access Controller Position Chart for the Following Models:**

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



**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.



Trove2BWC  
with  
batteries

**TROVE2BWC - Battery/Wire Trough Enclosure**

Altronix Trove2BWC is a dual-purpose enclosure that can be used as wiring trough or battery cabinet when mounted above or below of the Trove2 integrated power and access solution. The knockouts on the Trove2BWC have been strategically placed to line up with the Trove2 allowing for easy conduit connections between cabinets. Trove2BWC includes cam locks and 2 tamper switches to ensure access to wiring and batteries is secure.



Trove2BWC  
with  
wires

**Dimensions and Drawing**

Dimensions (H x W x D approximate)

27.25" x 21.5" x 6.5" (692.2mm x 546.1mm x 165.1mm)

