

T3AXK77F16SQ (Kit)

Access & Power Integration Solution for Axis Communications



Altronix T3AXK77F16SQ kit consists of Trove2 enclosure, TV3 Axis Communications/Altronix backplane with two (2) 24VDC @ 10A power supply/charger, two (2) eight (8) fuse protected networked dual input/output access control modules, two (2) 12VDC voltage regulators and two (2) sixteen (16) fuse protected dual input/output power distribution modules. This kit also accommodates up to eight (8) A1601 or A1610 or sixteen (16) A1210 modules for up to sixteen (16) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.



T3AXK77F16SQ with eight (8) A1601
DIN Rail is not included

Axis Communications boards are not included



Key Features

- Two (2) 24VDC power supply/chargers
- Accommodates AXIS A1601, A1610 or A1210 modules
- 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)
- Enclosure accommodates up to four (4) 12VDC/12AH batteries
- 16 gauge galvanized steel backplane simplifies board layout and wire management
- Supervision
 - AC Fail
 - Low Battery and Battery Presence
 - Low power shutdown
- Agency Listings:
 - CE European Conformity
- Lifetime Warranty*

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

Specifications

Two (2) Power Supply/Charger (eFlow104NB):

| | |
|----------------|--|
| Input | |
| Voltage | 120VAC, 60Hz, 4.5A max. |
| Input Fuse | 6.5A/250V |
| Outputs | |
| Voltage | 24VDC |
| Current | 10A continuous |
| Auxiliary | Class 2 power-limited @ 1A (unswitched) |
| Other | Overvoltage protection. Filtered and regulated |

Battery Charging

| | |
|-------------------------------|--|
| Capacity | 12AH/12VDC (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. Prevents deep battery discharge

Indicators (LED)

| | |
|-----------|-------------------|
| Input | 120VAC is present |
| DC Output | Powered |

Two (2) 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 (PDS16):

| | |
|---|--|
| Input | |
| Voltage | 24VDC from eFlow104NB and 12VDC from VR6 |
| 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 |

Two (2) Network Access Power Controllers (LINQ8ACM):

| | |
|--------------|--|
| 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

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 LEDs: | indicate outputs are triggered |
| Individual Voltage LEDs: | indicate 12VDC (Green) or 24VDC (Red) |

T3AXK77F16SQ Kit:

Agency Listings

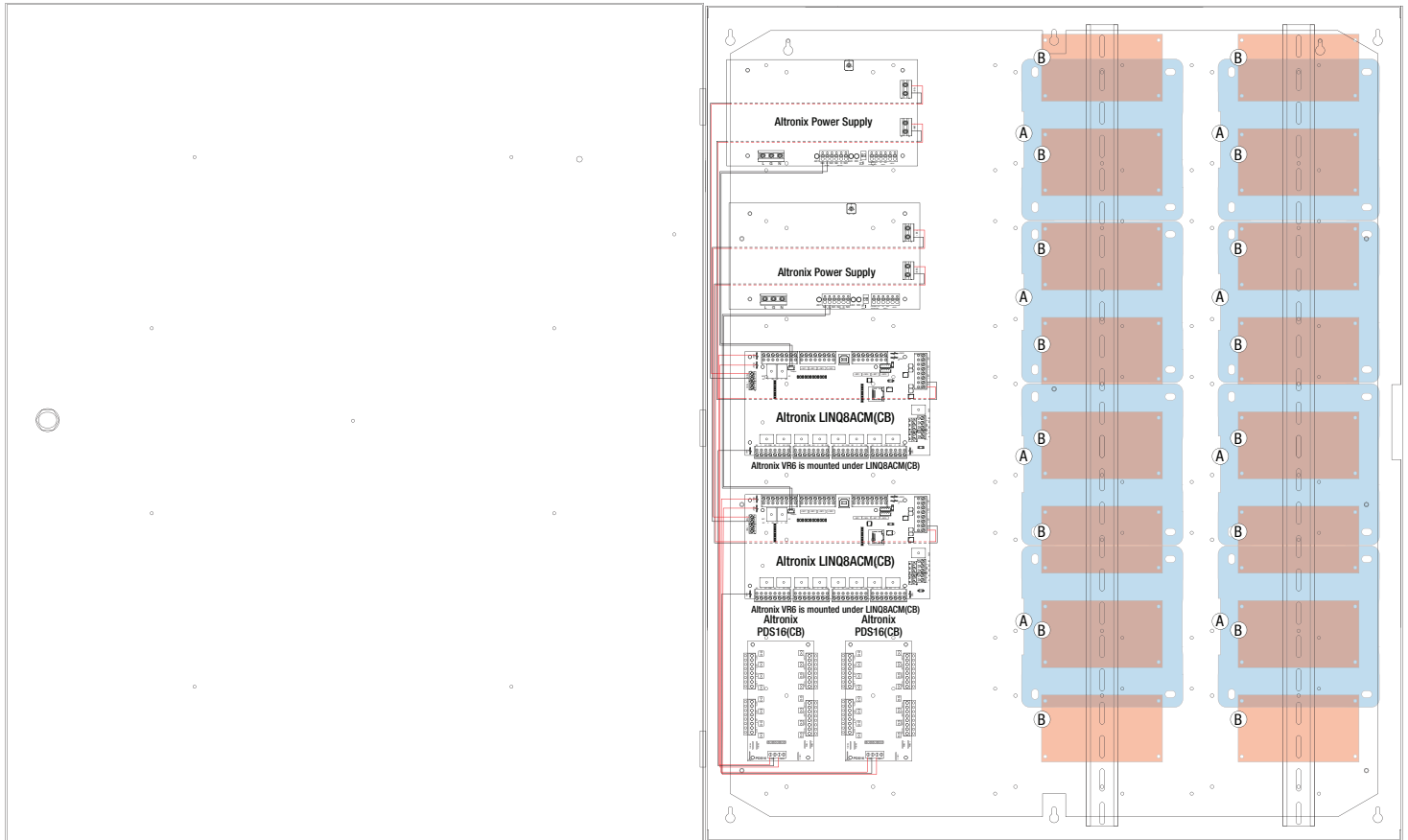
| | |
|----|---------------------|
| CE | European Conformity |
|----|---------------------|

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 | 84.2 lb. (38.2 kg) |
| Shipping | 97.5 lb. (44.22 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.): | 246 BTU/Hr. |

Access Controller Position Chart for the Following Models:

| Altronix/Axis Communications | Pem Mounting |
|--|--------------|
| Axis 1601, Axis 1610 (mounted onto DIN Rail) | (A) |
| Axis 1210 (mounted onto DIN Rail) | (B) |



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

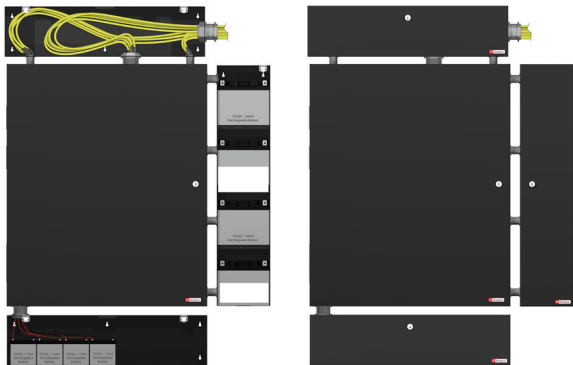
Altronix mounting magnets accommodate screws and nylon standoffs to allow for mounting various boards/accessories in any metal enclosure or backplane.



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.



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.

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)

