

**T3IRK7716SD (Kit)**

## Access &amp; Power Integration Solution for Inner Range

**TROVE™**

Altronix T3IRK7716SD kit consists of Trove3 enclosure, TIR3 Inner Range/Altronix backplane with two (2) 24VDC @ 10A power supply/chargers, two (2) dual input 8-output PTC access power controllers, two (2) voltage regulators and two (2) dual input PTC power distribution modules.

This kit also accommodate the following Integrati modules one (1) Security Controller or one (1) Access Controller module and twelve (12) Integrati Intelligent LAN Access modules or twelve (12) Integrati Standard LAN Access modules or twelve (12) Integrati 8-32 Zone LAN I/O Expander Modules or twenty (20) Standard LAN Access Modules or twenty (20) 8 Zone Expansion Device or twenty (20) Unibus 8 Relay Expander modules or twenty (20) Unibus 8 Relay Auxiliary Expander modules a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.

**T3IRK7716SD***Inner Range boards are not included***ir inner range****Key Features**

- 24VDC power supply/chargers
- Accommodates the following Inner Range boards:
  - Integrati Security Controller (ISC)
  - Integrati Access Controller (IAC)
  - Integrati 8 Zone LAN Expander
  - Integrati Intelligent LAN Access Module (ILAM)
  - Integrati Unibus 2 Door / 2 Reader Expander
  - Integrati UniBus 16 Floor Lift Interface Device
  - Integrati UniBus 8 Zone Expander
  - Integrati UniBus 8 Relay Auxiliary Expander
- Convenient knockout configuration:
  - One (1) single knockout 2.415" (2" Conduit)
  - Two (2) double knockout 1.948" (1.5" Conduit) / 1.701" (1.25" Conduit)
  - Thirteen (13) double knockouts 1.362" (1" Conduit) / 1.115" (3/4" Conduit)
- 16 AWG galvanized steel backplane simplifies board layout and wire management
- Enclosure accommodates up to four (4) 12VDC/12AH batteries
- Supervision
  - AC Fail
  - Battery Fail and Battery Presence
- Agency Listings:
  - All Altronix components of this Trove kit are UL Listed sub-assemblies. Please refer to the Sub-Assembly Installation Guides for further information
    - UL: UL294 - Access Control System.
    - cUL: CAN/ULC - s319-05 - Electronic Access Control Systems
  - CE European Conformity
- Lifetime Warranty\*

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

## Specifications

### Two (2) Power Supplies (AL1024ULXB2):

#### Input

|            |                        |
|------------|------------------------|
| Voltage    | 115VAC 60Hz, 4.2A max. |
| Input Fuse | 5A/250V                |

#### Outputs

|         |  |
|---------|--|
| Voltage | 24VDC  |
| Current | 10A @ 24VDC continuous max.                    |
| Other   | Overvoltage protection. Filtered and regulated |

### Battery Charging

|                               |  |
|-------------------------------|--|
| Capacity                      | 12AH/12VDC (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 |  |

### Supervision

|            |                   |
|------------|-------------------|
| AC Failure | Form "C" contacts |
| Battery    | Form "C" contacts |

### Indicators (LED)

|           |                             |
|-----------|-----------------------------|
| Input     | 115VAC is present           |
| DC Output | Powered                     |
| Battery   | Discharged or not connected |

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

#### Input

|            |  |
|------------|--|
| Voltage    | 24VDC from AL1024ULXB2 and<br>12VDC from VR6 |
| Input PTCs | 9A   |

#### 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) 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 |
|-------------|------|

### Indicators (LED)

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

#### Individual voltage LEDs:

|        |       |
|--------|-------|
| Green: | 12VDC |
| Red:   | 24VDC |

### Two (2) Voltage Regulators (VR6):

#### Input

|         |                        |
|---------|------------------------|
| Voltage | 24VDC from AL1024ULXB2 |
|---------|------------------------|

#### Output

|         |                   |
|---------|-------------------|
| Voltage | 12VDC             |
| Current | 6A continuous     |
| Other   | Surge suppression |

### Indicators (LED)

|        |                  |
|--------|------------------|
| Input  | 24VDC is present |
| Output | Powered          |

### Two (2) Dual Input Power Distribution Modules (PDS8CB):

#### Input

|            |   |
|------------|---|
| Voltage    | 124VDC from AL1024ULXB2 and<br>12VDC from VR6 |
| Input PTCs | 9A  |

#### Outputs

|  |                    |
|--|--------------------|
| Voltage  | 12VDC and/or 24VDC |
| Any of the eight (8) 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 | Eight (8) individual output LEDs |
| Green:    | 12VDC                            |
| Red:      | 24VDC                            |

## T3IRK7716SD Kit:

### Agency Listings

All components of this Trove kit are UL Listed sub-assemblies. Please refer to the corresponding Sub-Assembly Installation Guides for further information.

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:  | 85.6 lb. (38.83 kg) |
| Shipping: | 98.8 lb. (44.82 kg) |

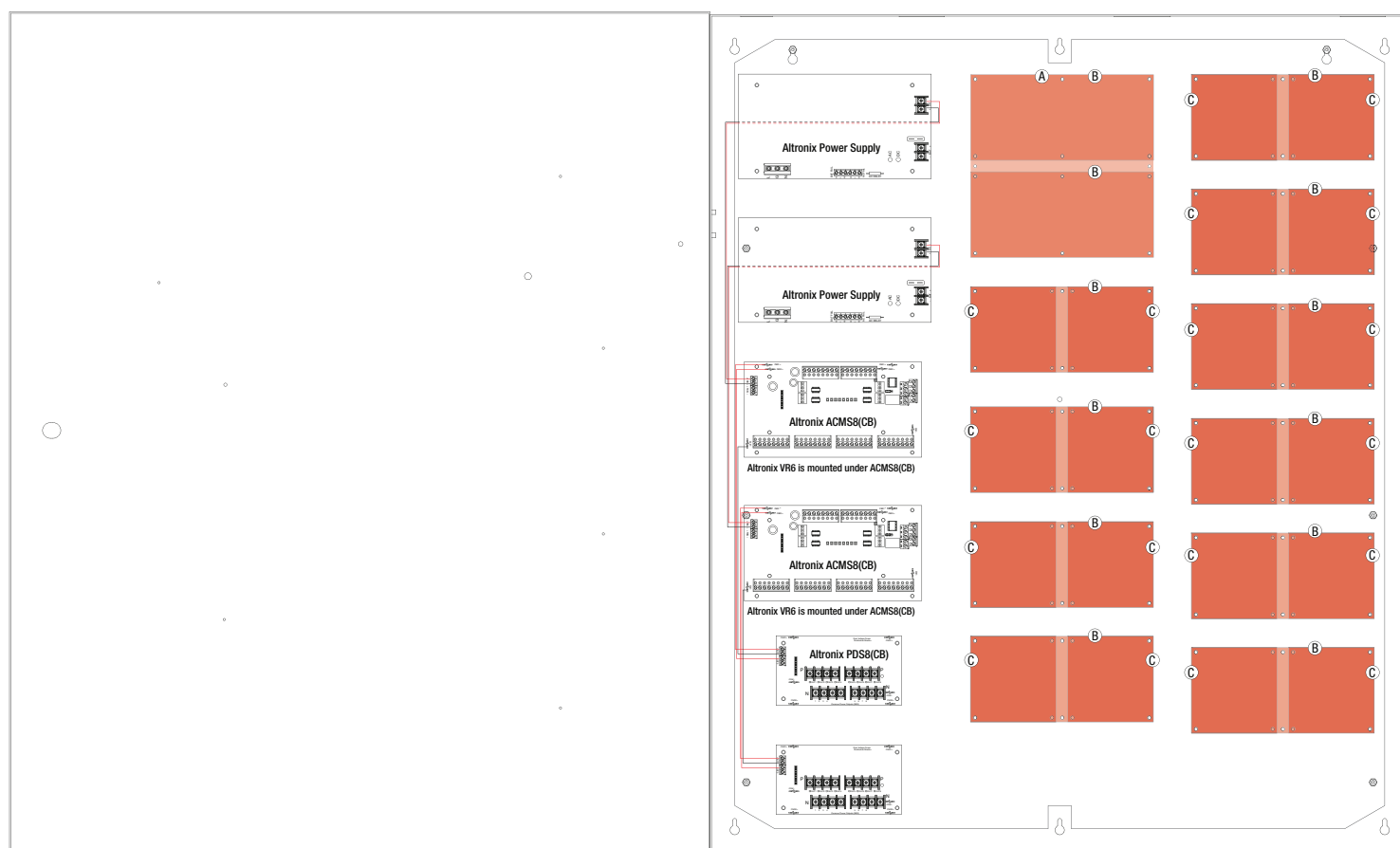
#### Temperature

|            |                               |
|------------|-------------------------------|
| 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. |

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

| Inner Range  | Pem Mounting |
|--|--------------|
| Integriti Security Controller (ISC) INTG-996001EUPCBK or Integriti Access Controller (IAC) INTG-996035PCBK   | (A)          |
| Inception Controller (no case) or<br>Integriti 8 Zone LAN Expander INTG-996005PCBKIT or Integriti Intelligent LAN Access Module (ILAM) INTG-996018PCBK or<br>Integriti UniBus 2 Door / 2 Reader Expander INTG-996535PCBK or<br>Integriti UniBus 16 Floor Lift Interface Device INTG-996540PCBK | (B)          |
| Integriti UniBus 8 Zone Expander INTG-996500PCBKIT or<br>Integriti UniBus 8 Relay Auxiliary Expander INTG-996515PCBKIT   | (C)          |



**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**

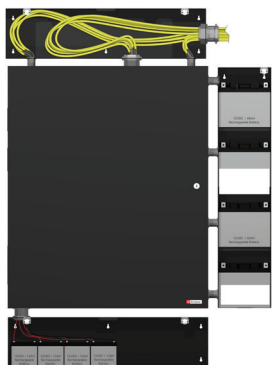
Altronix mounting magnets accommodate screws and nylon standoffs to allow for mounting various boards/ accessories in any metal enclosure or backplane.



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 30.12" x 7.06" (917.5mm x 768.1mm x 179.3mm)

