Altronix®

Rev. 11022023

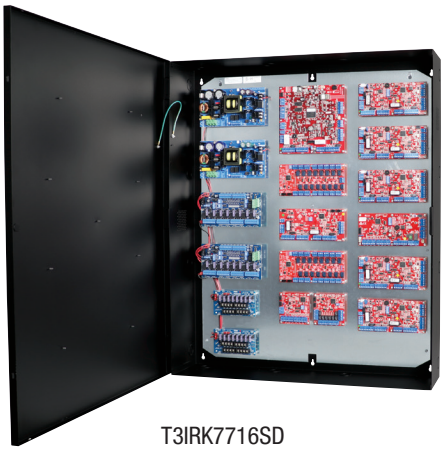
T3IRK7716SD (Kit)

Access & 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 Integriti modules one (1) Security Controller or one (1) Access Controller module and twelve (12) Integriti Intelligent LAN Access modules or twelve (12) Integriti Standard LAN Access modules or twelve (12) Integriti 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

Key Features

- 24VDC power supply/chargers
- Accommodates the following Inner Range boards:
  - Integriti Security Controller (ISC)
  - Integriti Access Controller (IAC)
  - Integriti 8 Zone LAN Expander
  - Integriti Intelligent LAN Access Module (ILAM)
  - Integriti Unibus 2 Door / 2 Reader Expander
  - Integriti UniBus 16 Floor Lift Interface Device
  - Integriti UniBus 8 Zone Expander
  - Integriti 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 gauge 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*

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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 (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

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 12VDC from VR6
Input PTCs	9A

Outputs

Voltage: 12 or 24VDC individually selectable

Eight (8) selectable 12VDC - 24VDC independently controlled outputs or eight (8) indepently 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 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:	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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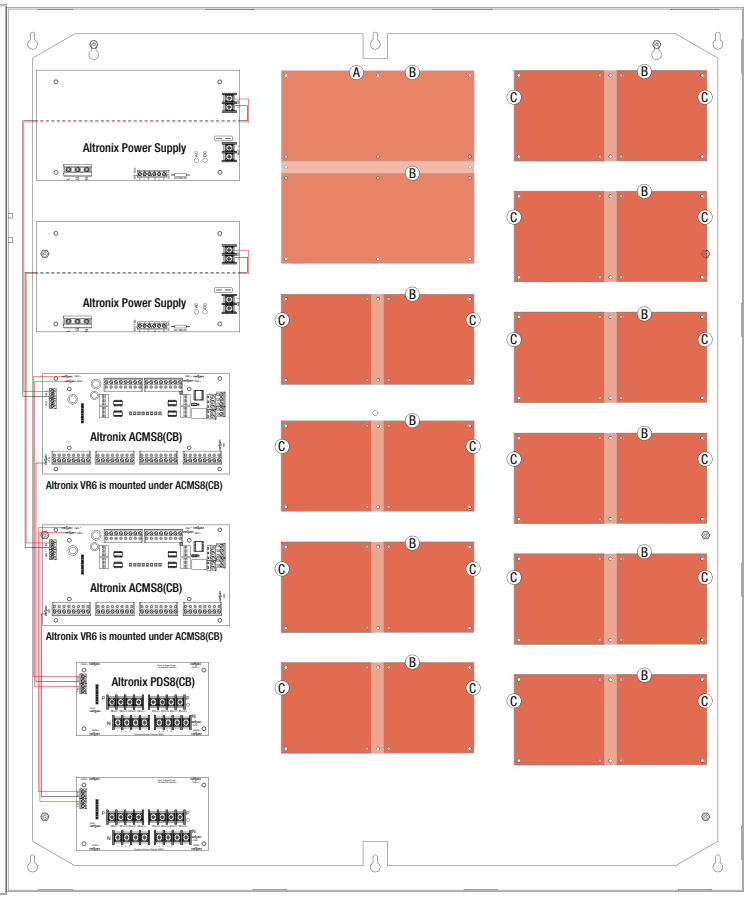
Access Controller Position Chart for the Following Models:

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



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Accessories (order separately)

WM5

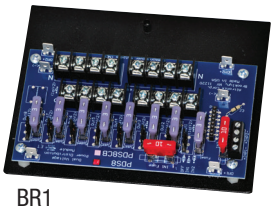
WM5, WM25, WM100 - Magnetic Cable Tie Mounts

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

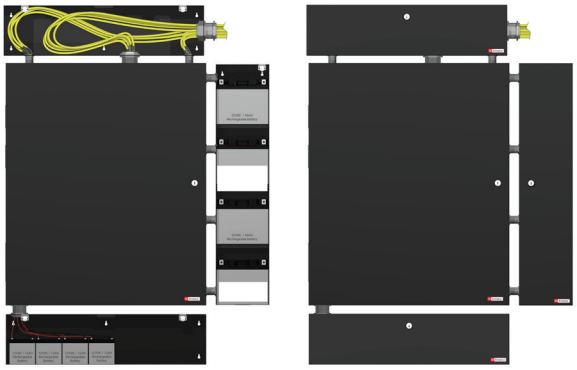
Altronix mounting magnets accommodate screws and nylon standoffs to allow for mounting various boards/ accessories in any metal enclosure or backplane.



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, 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.

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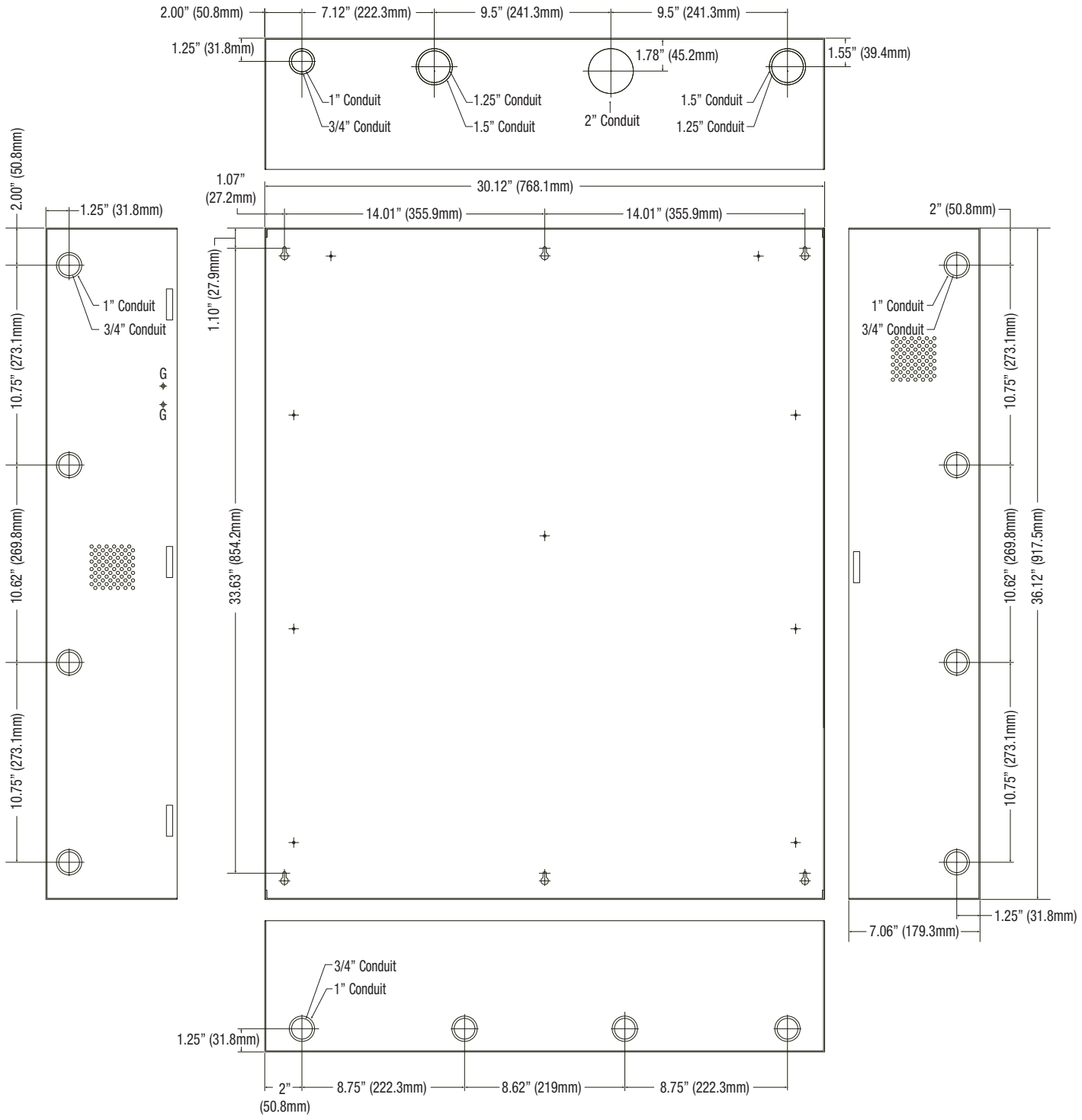
Dimensions and Drawing

Dimensions (H x W x D approximate)

36.12” x 30.12” x 7.06” (917.5mm x 768.1mm x 179.3mm)



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