Altronix®

T2IRK78SD (Kit)

Access & Power Integration Solution for Inner Range

TROVE™

Altronix T2IRK78SD kit consists of Trove2 enclosure, TIR2 Inner Range/Altronix backplane with one (1) 24VDC @ 10A power supply/charger, one (1) dual input 8-output PTC access power controller, one (1) voltage regulator and one (1) dual input PTC power distribution module.

This kit also accommodate the following Integriti modules one (1) Security Controller or one (1) Access Controller module and five (5) Integriti Intelligent LAN Access modules or five (5) Integriti Standard LAN Access modules or five (5) Integriti 8-32 Zone LAN I/O Expander Modules or six (6) Standard LAN Access Modules or six (6) 8 Zone Expansion Device or six (6) Unibus 8 Relay Expander modules or six (6) Unibus 8 Relay Auxiliary Expander modules a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.

inner range

T2IRK78SD

Inner Range boards are not included

Key Features

- 24VDC power supply/charger
- 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)
    - Sixteen (16) 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

Power Supply/Charger (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

Dual Input Access Power Controller (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

Voltage Regulator (VR6):

Input

Voltage	24VDC from AL1024ULXB2

Output

Voltage	12VDC
Current	6A continuous
Other	Surge suppression

Indicators (LED)

Input	24VDC is present
Output	Powered

Dual Input Power Distribution Module (PDS8CB):

Input

Voltage	24VDC from AL1024ULXB2 and
	12VDC from VR6
Input PTCs	10A/32V

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

T2IRK78SD 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:
        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" (826mm x 673mm x 283mm)

Weight (approx.)

Product	49.8 lb. (22.59 kg).
Shipping	53.55 lb. (24.29 kg).

Temperature

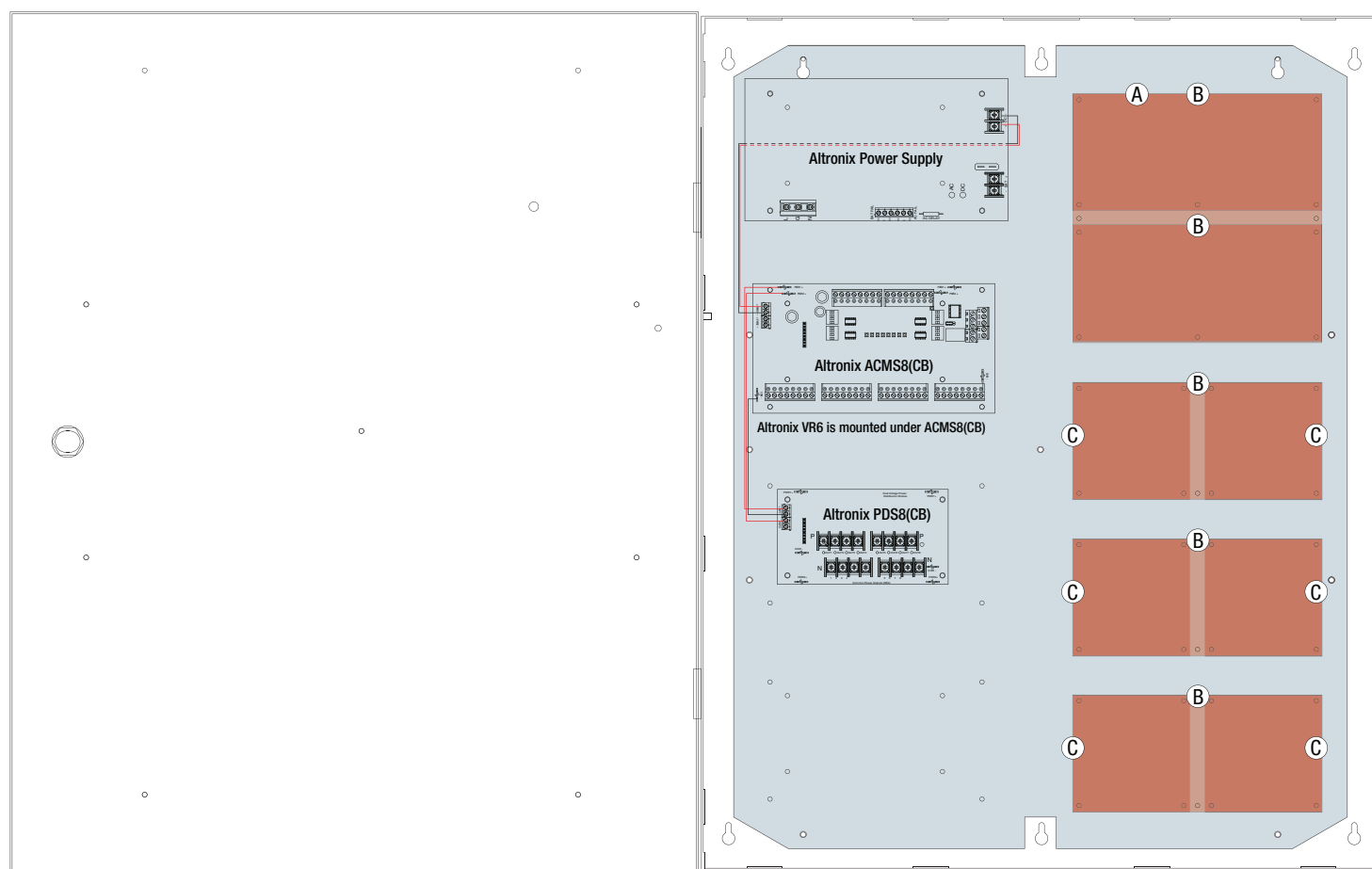|	
Operating	0ºC to 49ºC (32ºF to 120ºF).
Storage	−20ºC to 70ºC (−4ºF to 158ºF).
Relative Humidity	85% +/− 5%.
BTU/Hr (approx.):	77 BTU/Hr.

Altronix®

T2IRK78SD (Kit)
Access & Power Integration Solution for Inner Range

TROVE™

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	Ⓐ
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	Ⓑ
Integriti UniBus 8 Zone Expander INTG-996500PCBKIT or Integriti UniBus 8 Relay Auxiliary Expander INTG-996515PCBKIT	Ⓒ

Altronix Power Supply

Altronix ACMS8(CB)

Altronix VR6 is mounted under ACMS8(CB)

Altronix PDS8(CB)

Accessories (order separately)

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.

WM5

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.

Mounting Magnet

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.

BR1

TROVE2BWC - Battery/Wire Trough Enclosure

Trove2BWC with batteries

Trove2BWC with wires

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.

Altronix®

T2IRK78SD (Kit)

Access & Power Integration Solution for Inner Range

TROVE™

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)