Altronix®

Rev. 01102023

T2KSK712 (Kit)

Access & Power Integration Solution for Keri Systems

TROVE™

Altronix T2KSK712 kit consists of Trove2 enclosure, TKS2 Keri Systems/Altronix backplane with one (1) 24VDC @ 10A power supply/charger, one (1) dual input fused access power controller, one (1) voltage regulator, one (1) dual input fused power distribution module, and one (1) fused access power controller.

This kit also accommodate various combinations of Keri Systems boards for up to twelve (12) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.

KERI SYSTEMS™

T2KSK712

Keri Systems modules are not included

Key Features

- 24VDC power supply/charger
- Accommodates up to three (3) Keri Systems NXT-2D-MSCNE, NXT-4D-MSCNE or NXT-4X4NE 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
- 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
- 16 gauge 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*

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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

Access Power Controller (ACM4):

Input
- Voltage: 24VDC from AL1024ULXB2
- Input Fuse: 10A/32V

Outputs
- Voltage: 24VDC

Four (4) independently controlled fused outputs:
a) Four (4) Fail-Safe and/or Fail-Secure power outputs
b) Four (4) dry form "C" 5A rated relay outputs
c) Any combination of the above

Four (4) auxiliary power outputs (unswitched)

- Output Fuses: 3A/32V

Indicators (LED)
- Red LEDs: Outputs are triggered (relays energized)
- Green LED: FACP disconnect is triggered

Dual Input Power Distribution Module (PDS8):

Input
- Voltage: 24VDC from AL1024ULXB2 and 12VDC from VR6
- Input Fuses: 10A/32V

Outputs
- Voltage: 12 or 24VDC individually selectable

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 Fuses: 3A/32V

Indicators (LED)
- DC Output: Eight (8) individual output 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 Access Power Controller (ACMS8):

Input
- Voltage: 24VDC from AL1024ULXB2 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) 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) 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

T2KSK712 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" (825.5mm x 673.1mm x 282.6mm)
- Weight (approx.)
  - Product: 54.7 lb. (24.8 kg)
  - Shipping: 59.7 lb. (27.1 kg)
- Temperature
  - Operating: 0ºC to 49ºC (32ºF to 120ºF)
  - Storage: – 20ºC to 70ºC (– 4ºF to 158ºF)
- Relative Humidity: 85% +/– 5%
- BTU/Hr (approx.): 128 BTU/Hr.

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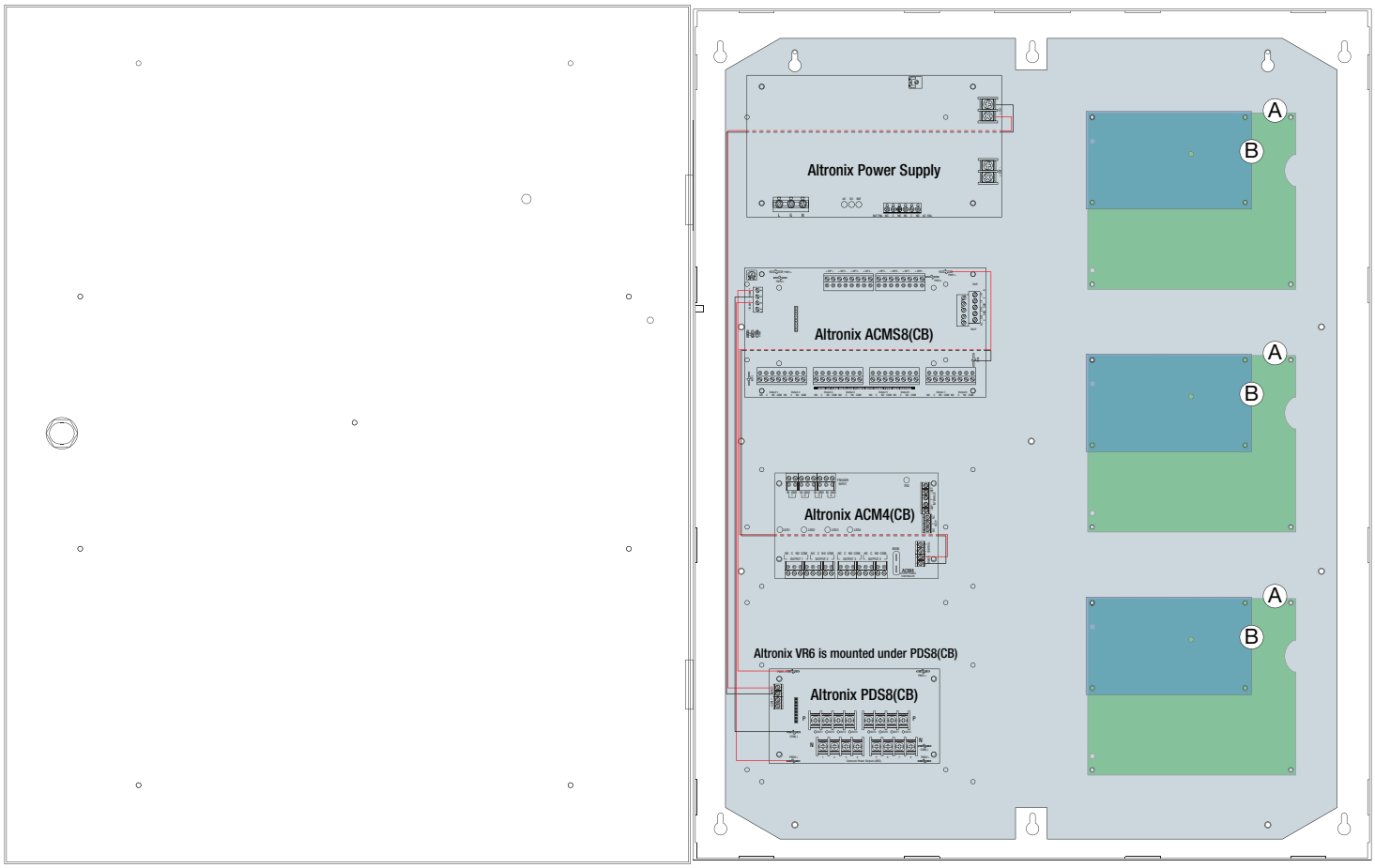
Access Controller Position Chart for the Following Models:

Keri Systems	Pem Mounting
NXT-2D-MSCNE, NXT-4D-MSCNE (with optional NXT-RM3 and/or NXT-WI)	A
NXT-4x4NE	B



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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.

Trove2BWC with batteries

Trove2BWC with wires

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.

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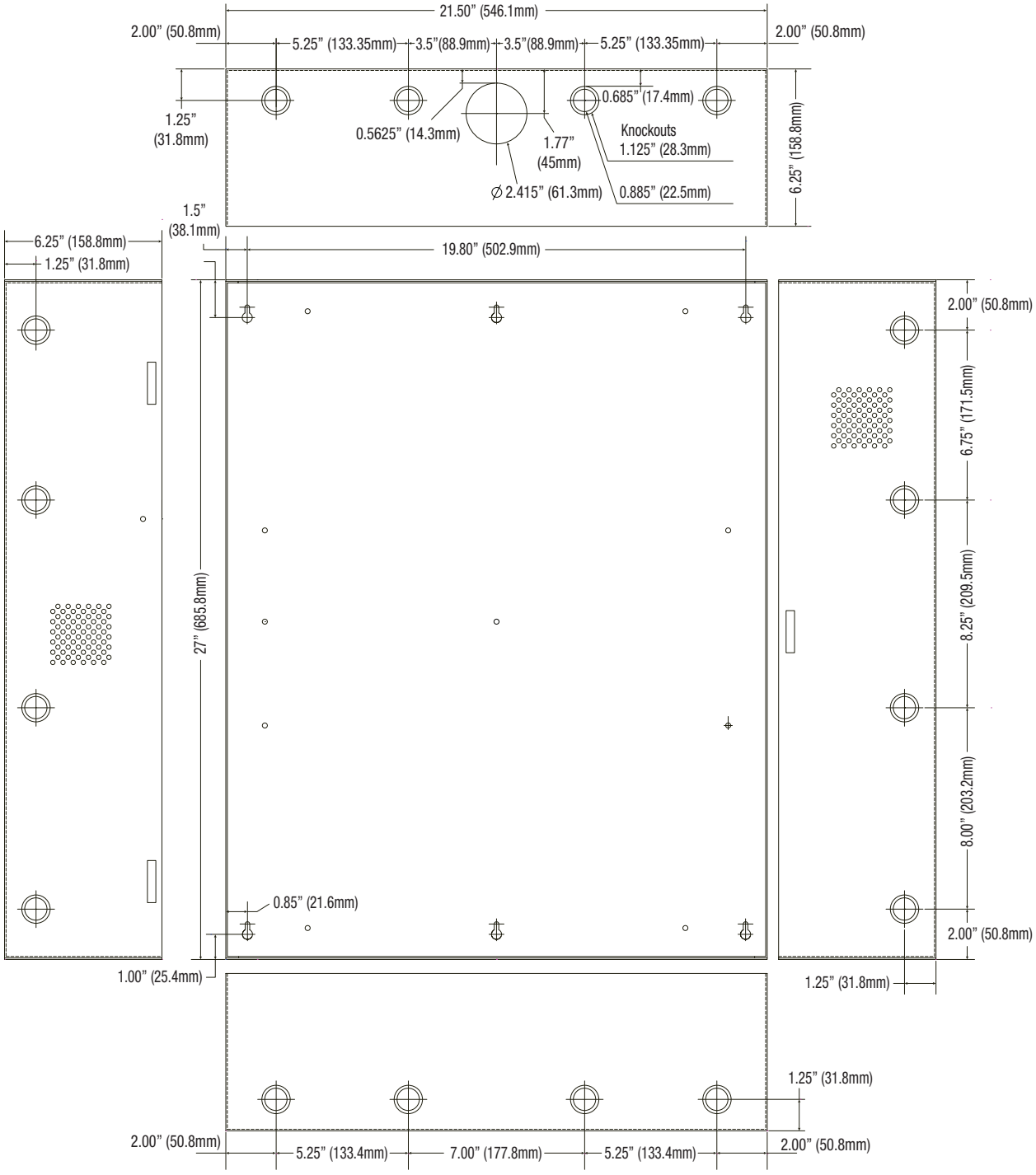
Dimensions and Drawing

Dimensions (H x W x D approximate)

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



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