Altronix®

T2CRK7F8SD (Kit)
Access & Power Integration Solution for Rhombus

TROVE™

Altronix T2CRK7F8SD kit consists of Trove2 enclosure, TCV2 backplane with one (1) 24VDC @ 10A power supply/charger, one (1) eight (8) PTC protected dual input/output access control module, one (1) 12VDC voltage regulator and one (1) eight (8) PTC protected dual input/output power distribution module. This kit also accommodates up to two Rhombus DC20M for up to eight (8) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.

rhombus

T2CRK7F8SD

Rhombus boards are not included

Key Features

- 24VDC power supply/charger
- Accommodates two (2) Rhombus DC20M modules
- 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
  - Low power shutdown
- Enclosure accommodates up to four (4) 12VDC/12AH batteries

- 16 AWG galvanized steel backplane simplifies board layout and wire management
- 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

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 (4 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

Dual Input Access Power Controller (ACMS8CB):

Input
Voltage	24VDC from eFlow104NB and 12VDC from VR10
Input PTCs	9A

Outputs
Voltage	12VDC and/or 24VDC

Eight (8) selectable 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 (VR10):

Input
Voltage	24VDC from eFlow104NB

Output
Voltage	12VDC
Current	10A continuous
Other	Surge suppression

Indicators (LED)
Input	24VDC is present
Output	Powered

Dual Input Power Distribution Module (PDS8CB):

Input
Voltage	24VDC from eFlow104NB and 12VDC from VR10
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

T2CRK7F8SD 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.

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Access Controller Position Chart for the Following Models:

Altronix/Rhombus	Pem Mounting
DC20M	Ⓐ

Altronix Power Supply

Altronix ACMS8(CB)

Altronix PDS8(CB)
with VR6 mounted below

Ⓐ

Ⓐ
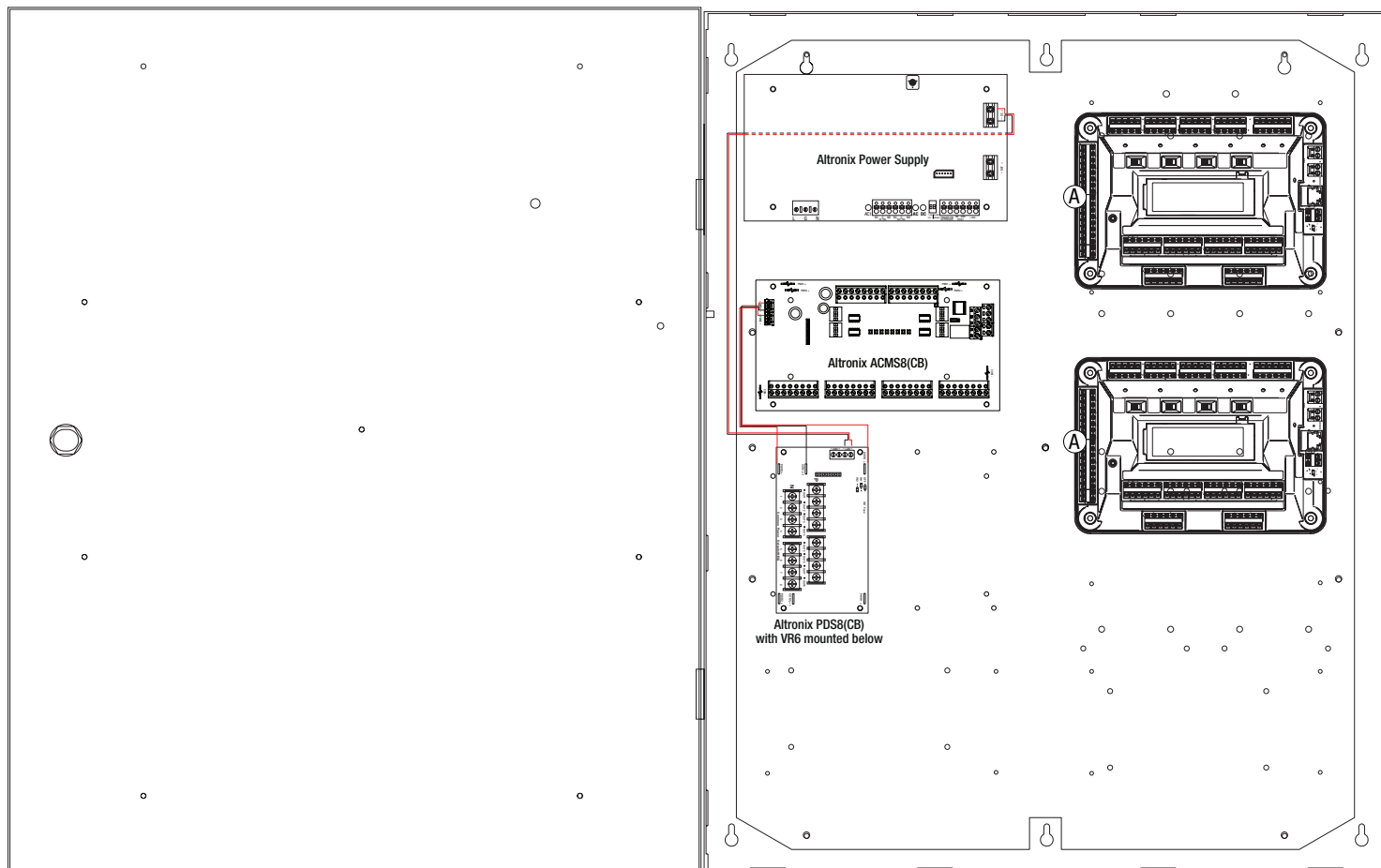
Accessories (order separately)
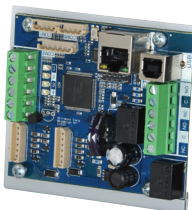
LINQ2 - Network Supervision
Altronix LINQ2 Network Communication Module provides remote supervision, control and monitoring over LAN/WAN
- Remotely reports accurate power diagnostics
- Controls power and resets devices
- Reports system diagnostics via Email

LINQ2

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, VR10, PDS8, NetWay5B or LINQ8PD(CB) sub-assembly on the enclosure's inside wall, saving valuable space.

BR1

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.

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)