

T1CRK3F4 (Kit)

Access & Power Integration Solution for Rhombus



Altronix T1CRK3F4D kit consists of Trove1 enclosure, TDR1 backplane with one (1) 24VDC @ 6A power supply/charger, one (1) fuse protected access power controller, one (1) voltage regulator and one (1) dual input fuse protected power distribution module. This kit also accommodates one (1) Rhombus DC20M for up to four (4) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.



T1CRK3F4

Rhombus boards are not included

Key Features

- 24VDC power supply/charger
- Accommodates one (1) DC20M module
- Convenient knockout configuration:
 - One (1) double knockout
1.948" (1-1/2" Conduit) / 1.701" (1-1/4" Conduit)
 - Nine (9) double knockouts
1.362" (1" Conduit) / 1.115" (3/4" Conduit)
- Supervision
 - AC Fail
 - Low Battery and Battery Presence
 - Low power shutdown
- 16 gauge galvanized steel backplane simplifies board layout and wire management
- Enclosure accommodates up to two (2) 12VDC/7AH batteries
- 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*

Accessories (order separately)



LINQ2

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



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.

Specifications

Power Supply/Charger (eFlow6NB):

Input	
Voltage	120VAC, 60Hz, 3.5A max.
Input Fuse	5A/250V
Outputs	
Voltage	12VDC or 24VDC selectable
Current	6A continuous max.
Auxiliary	Power-limited @ 1A (unswitched)
Other	Overvoltage protection. Filtered and regulated

Battery Charging

Capacity	7AH/12VDC (2 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 71-73% for 12V units and 70-75% for 24V units (depending on the power supply). Prevents deep battery discharge

Indicators (LED)

Input	120VAC is present
DC Output	Powered

Access Power Controller (ACM4):

Input	
Voltage	24VDC from eFlow6NB
Input Fuse	10A/32V
Outputs	
Voltage	24VDC
Four (4) independently controlled fused outputs:	
a) Fail-Safe and/or Fail-Secure power outputs	
Form "C" Relays rated 28VAC or VDC @ 2.5A	
b) Auxiliary power outputs (unswitched)	
c) Any combination of the above	

Output Fuses	3A/32V
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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 eFlow6NB and 12VDC from VR6
Input Fuses	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 Fuses	3A/32V
Indicators (LED)	
DC Output	Eight (8) individual output LEDs
Green:	12VDC
Red:	24VDC

Voltage Regulator (VR6):

Input	
Voltage	24VDC from eFlow6NB
Output	
Voltage	12VDC
Current	6A continuous
Other	Surge suppression
Indicators (LED)	
Input	24VDC is present
Output	Powered

T1CRK3F4 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.

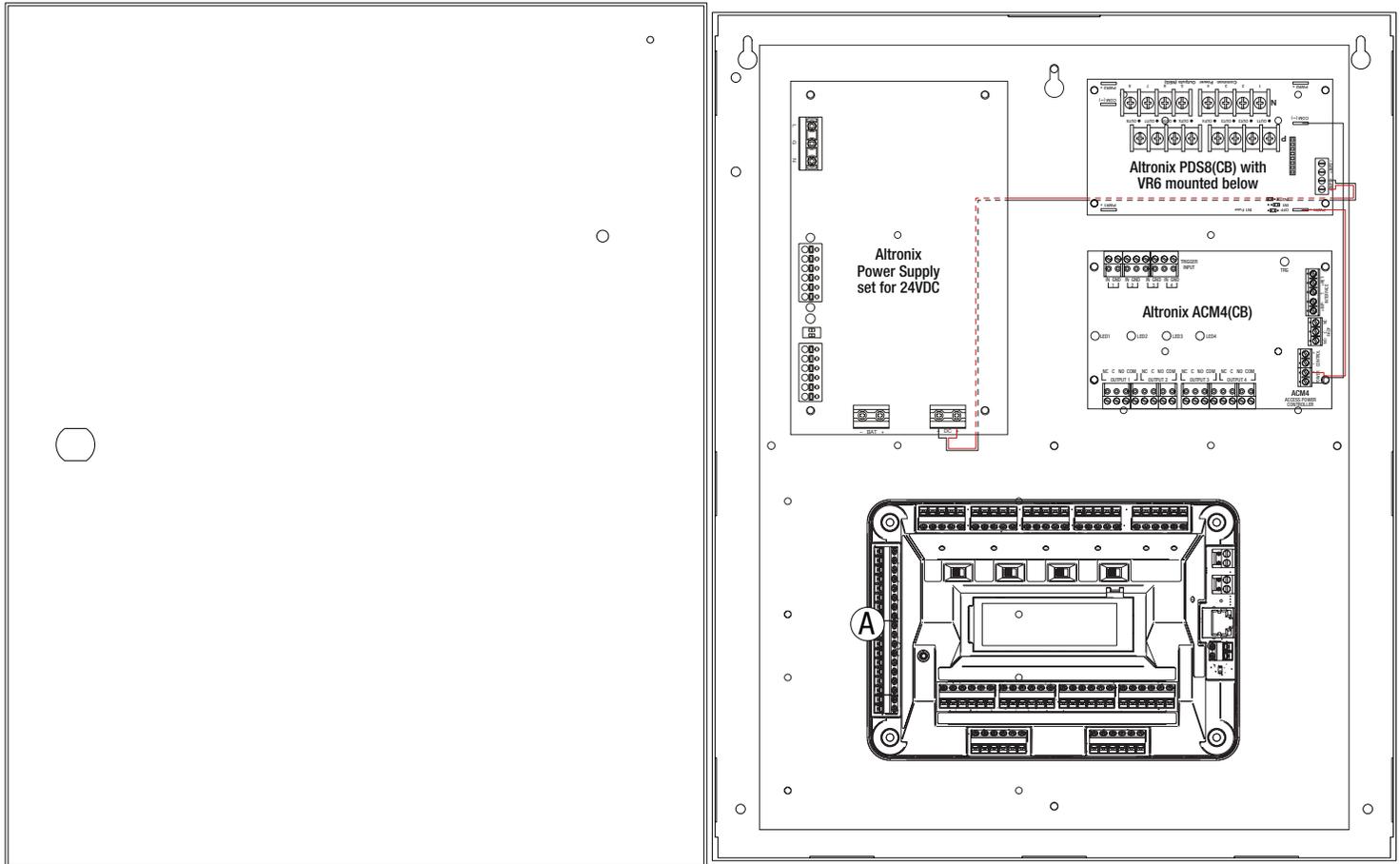
CE European Conformity

Physical and Environmental:

Dimensions (H x W x D)	
Enclosure:	18" x 14.5" x 4.62" (457.2mm x 368.3mm x 118.0mm)
Shipping:	21.75" x 18.25" x 5.75" (552.5mm x 463.6mm x 146.1mm)
Weight (approx.)	
Product:	15.5 lb. (7.0 kg)
Shipping:	19.5 lb. (8.9 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.):	87 BTU/Hr.

Access Controller Position Chart for the Following Models:

Altronix/Rhombus	Pem Mounting
DC20M	(A)



Dimensions and Drawing

Dimensions (H x W x D approximate)
 18.0" x 14.5" x 4.625" (457.2mm x 368.3mm x 118mm)

