Altronix®

Rev. 08112026

# T2CRK7F8S (Kit)

## Access & Power Integration Solution for Rhombus

TROVE™

Altronix T2CRK7F8S kit consists of Trove2 enclosure, TDR2 backplane with one (1) 24VDC @ 10A power supply/charger, one (1) eight (8) fuse protected dual input/output access control module, one (1) 12VDC voltage regulator and one (1) eight (8) fuse 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

T2CRK7F8S

*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)
- Enclosure accommodates up to four (4) 12VDC/12AH batteries
- 16 gauge galvanized steel backplane simplifies board layout and wire management
- Supervision
  - AC Fail
  - Low Battery and Battery Presence
  - Low power shutdown
- CE European Conformity
- Lifetime Warranty*

**Altronix Power Supply/Chargers and Sub-Assemblies only*

Altronix Corporation | 140 58th St | Brooklyn, NY 11220 USA
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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)<br>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 (ACMS8):

**Input**

| | |
|---|---|
| Voltage | 24VDC from eFlow104NB and 12VDC from VR10 |
| Input Fuses | 15A/32V |

**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) 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 |

### 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 (PDS8):

**Input**

| | |
|---|---|
| Voltage | 24VDC from eFlow104NB and 12VDC from VR10 |
| 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 |

### T2CRK7F8S Kit:

**Agency Listings**

| | |
|---|---|
| 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 | 20 to 85%, non-condensing |
| BTU/Hr (approx.): | 77 BTU/Hr. |

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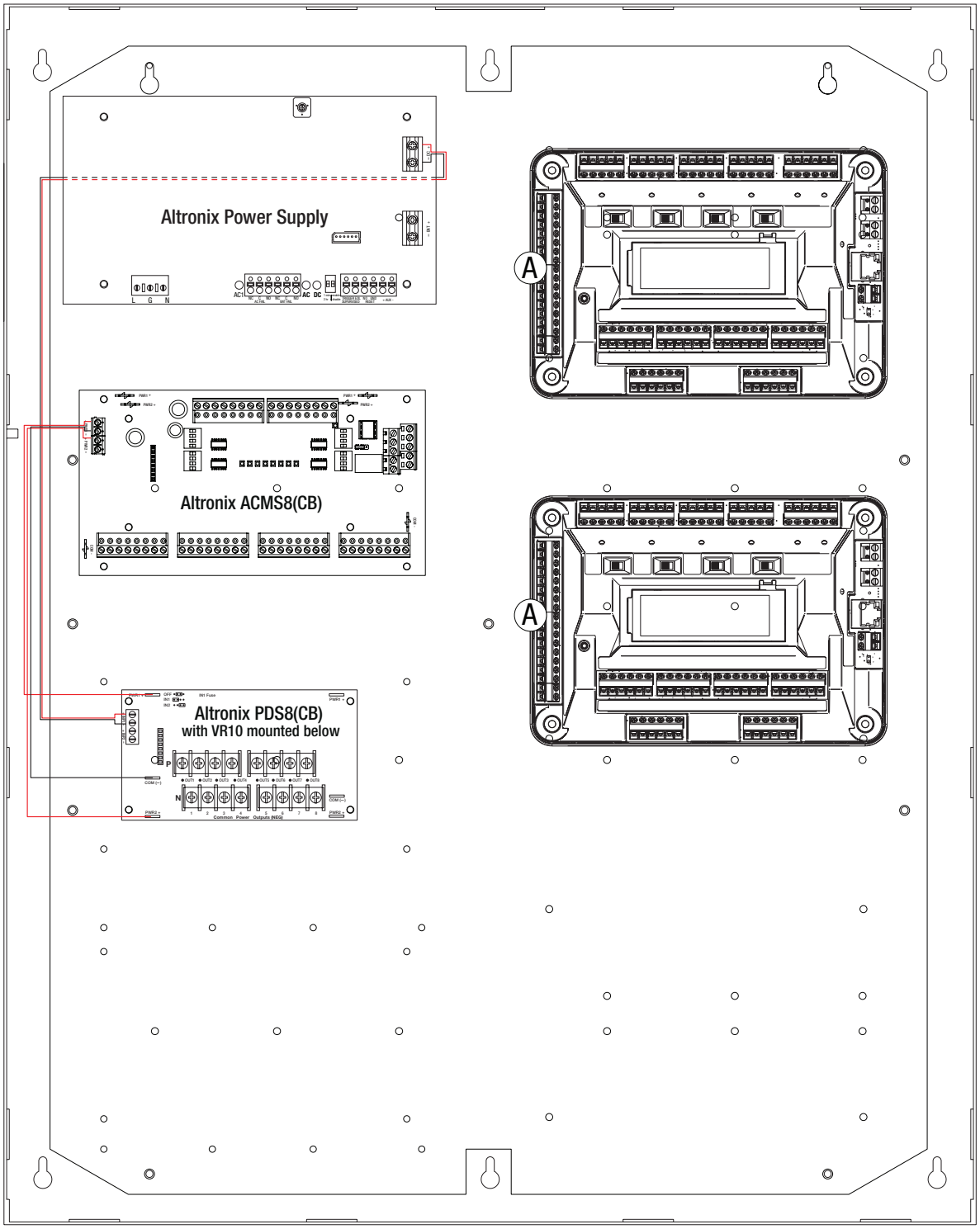
## Access Controller Position Chart for the Following Models:

| Altronix/Rhombus | Pem Mounting |
|---|---|
| DC20M | Ⓐ |

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## 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.

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, VR10, 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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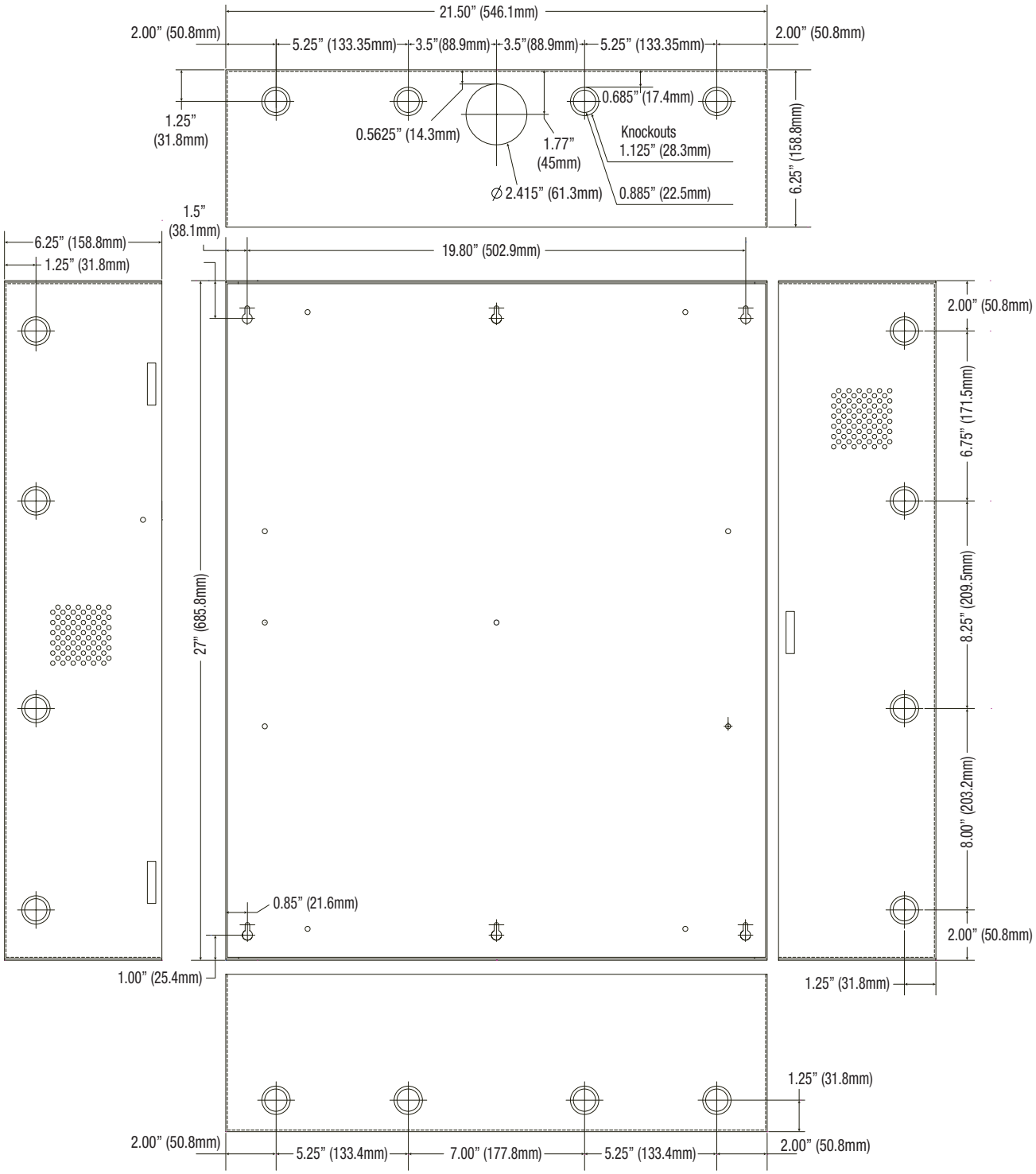
## Dimensions and Drawing

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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