

## T2PDK7516S (Kit)

Access & Power Integration Solution for PDK Red™



Altronix T2PDK7516S kit consists of Trove2 enclosure, TPD2 PDK Red™/Altronix backplane with one (1) 24VDC @ 10A, one (1) 12VDC @ 10A power supply/charger, two (2) eight (8) fuse protected dual input/output access control modules, one (1) 12VDC voltage regulator and one (1) eight (8) fuse protected power distribution module. This kit also accommodates up to four (4) PDK Red™ modules for up to sixteen (16) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.



T2PDK7516S

*PDK boards are not included*

### Key Features

- 12VDC & 24VDC power supply/chargers
- Accommodates Pdk Red™ modules:
  - up to eight (8) red1, red2, or six (6) red4
- 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
  - 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
- 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*

## Specifications

### Power Supply/Charger 1 (AL1024ULXB2):

<b>Input</b>	
Voltage	115VAC 60Hz, 4.2A
Input Fuse	5A/250V
<b>Output</b>	
Voltage	24VDC
Current	10A @ 24VDC continuous max.
Other	Oversvoltage protection. Filtered and regulated

### Power Supply/Charger 2 (AL1012ULXB):

<b>Input</b>	
Voltage	115VAC, 60Hz, 2.6A
Input Fuse	5A/250V
<b>Output</b>	
Voltage	12VDC
Current	10A @ 12VDC continuous max.
Other	Oversvoltage protection. Filtered and regulated

### Both Power Supplies:

<b>Battery Charging</b>	
Capacity	12VDC/12AH (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

### Voltage Regulator (VR6):

<b>Input</b>	
Voltage	24VDC from AL1024ULXB2
<b>Output</b>	
Voltage	12VDC
Current	6A continuous
Other	Surge suppression

### Indicators (LED)

Input	24VDC is present
Output	Powered

### Power Distribution Module (PD8UL):

<b>Input</b>	
Voltage	12VDC from AL1012ULXB
<b>Outputs</b>	
Voltage	12VDC
Output Fuses	3.5A/250V
<b>Indicators (LED)</b>	
Green LED	DC Output

### Two (2) Dual Input Access Power Controllers (ACMS8):

<b>Input</b>	
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) independently 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
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### Indicators (LED)

Red LEDs	Outputs are triggered (relays energized)
Blue LED	FACP disconnect is triggered
<b>Individual voltage LEDs:</b>	
Green:	12VDC
Red:	24VDC

### T2PDK7516S 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 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.): 290 BTU/Hr.

**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 - Battery/Wire Trough Enclosure**

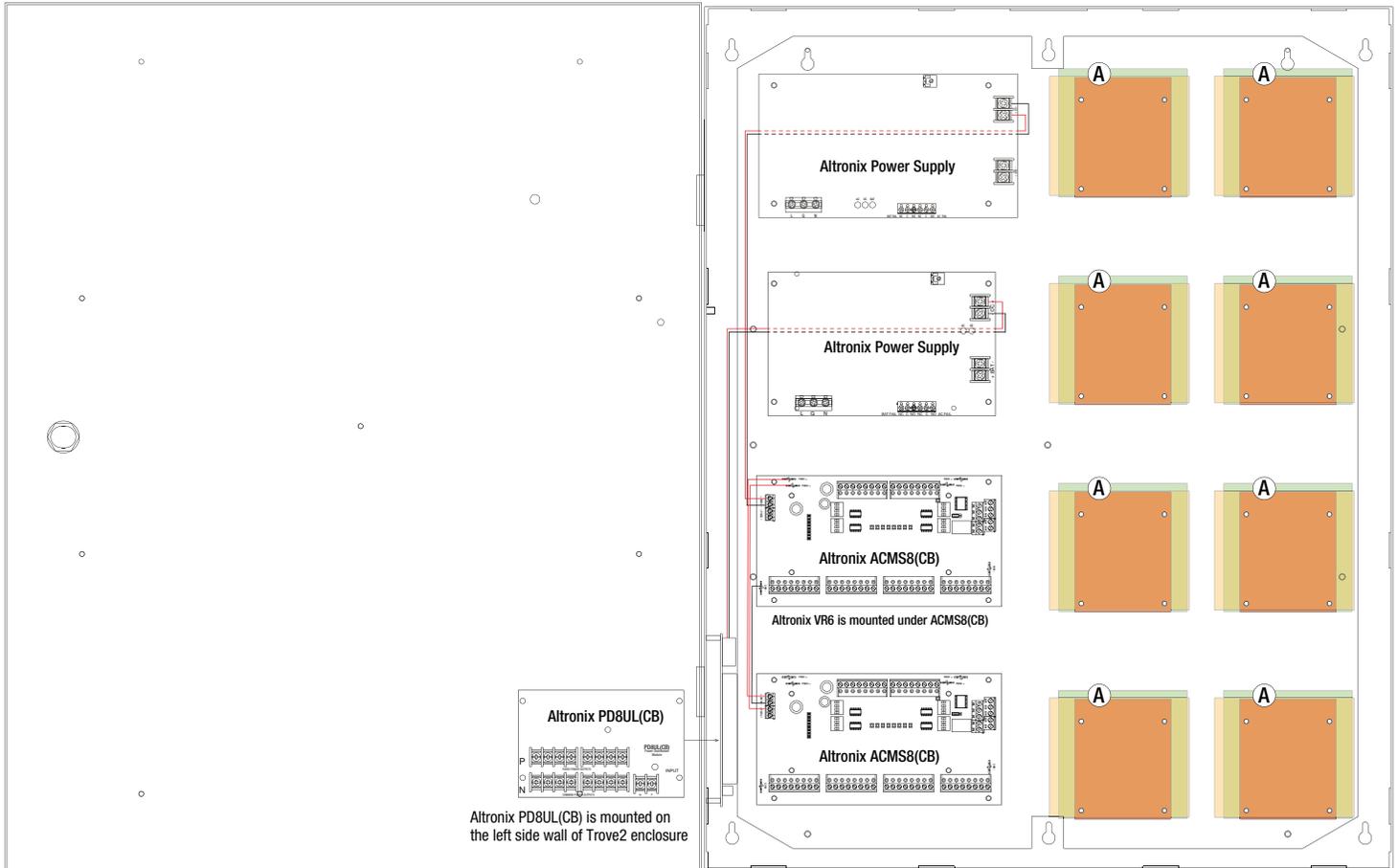
Altronix Trove2BWC is a dual-purpose enclosure that can be used as wiring trough or battery cabinet when mounted above or below of the Trove2 integrated power and access solution. The knockouts on the Trove2BWC have been strategically placed to line up with the Trove2 allowing for easy conduit connections between cabinets. Trove2BWC includes cam locks and 2 tamper switches to ensure access to wiring and batteries is secure.



Trove2BWC  
with  
wires

**Access Controller Position Chart for the Following Models:**

PDK	Pem Mounting
red1, red2, red4	(A)



**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)

