

# T1PDK7FM8 (Kit)

## Access & Power Integration Solution for PDK



Altronix T1PDK7FM8 kit consists of Trove1 enclosure, TPD1 PDK/Altronix backplane with one (1) 24VDC @ 10A power supply/charger, one (1) dual input eight (8) fuse protected output access control module and one (1) voltage regulator. This kit also accommodates up to two (2) PDK red modules for up to eight (8) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.



T1PDK7FM8

*PDK boards are not included*



### Key Features

- 24VDC power supply/charger
- Accommodates up to two (2) PDK ed1, red2, red4 modules
- 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
- 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 two (2) 12VDC/7AH batteries
- 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 (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 12VDC/7AH (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 70-75% for 24V units. Prevents deep battery discharge

**Indicators (LED)**

Input 120VAC is present  
 DC Output Powered

**Voltage Regulator (VR6):**

**Input**

Voltage 24VDC from eFlow104NB

**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 eFlow104NB and  
 12VDC from VR6

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

**T1PDK7FM8 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**

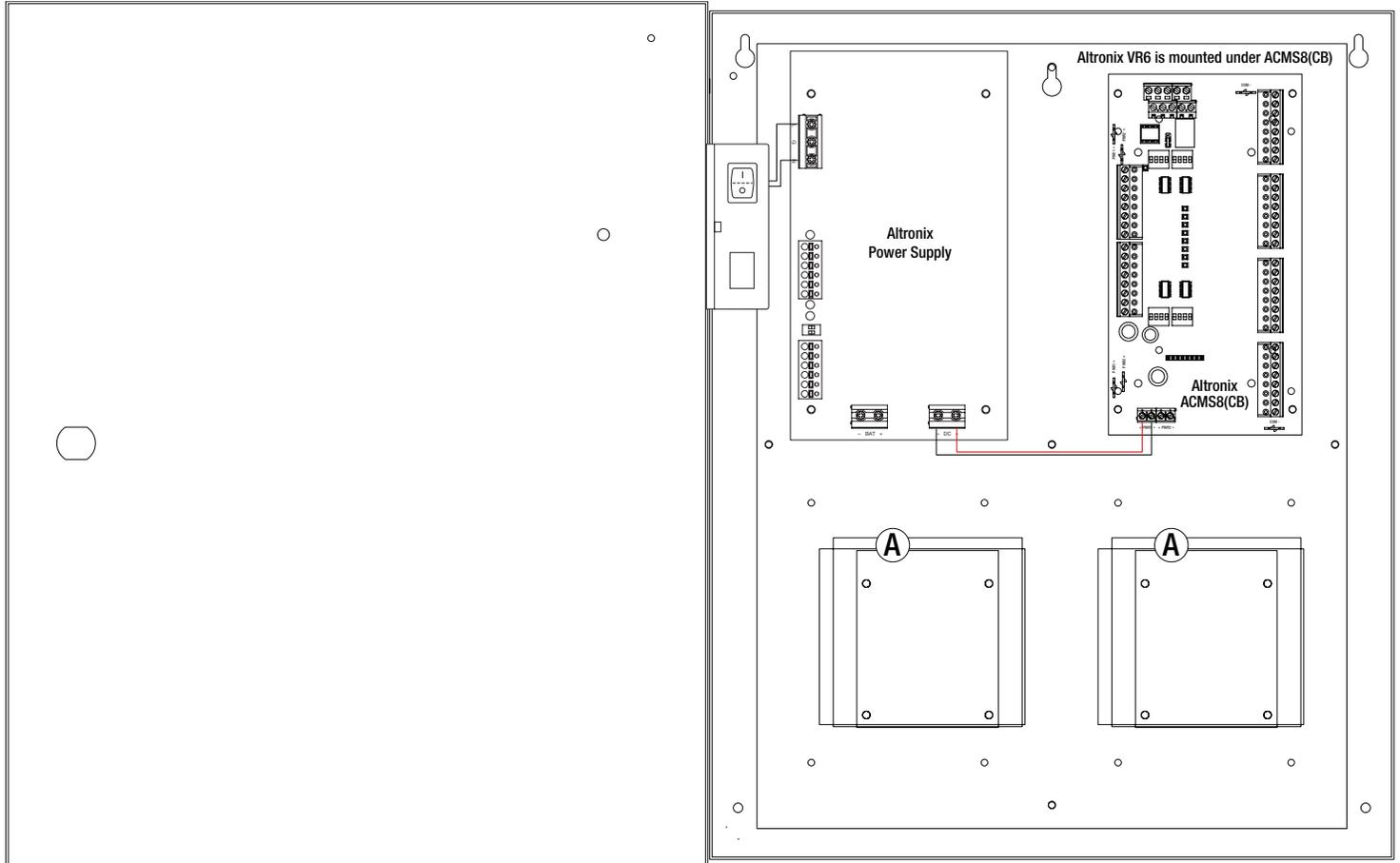
Operating 0°C to 49°C (32°F to 120°F)  
 Storage - 20°C to 70°C (- 4°F to 158°F)

Relative Humidity 85% +/-5%

BTU/Hr (approx.): 123 BTU/Hr.

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

PDK	Pem Mounting
red1, red2, red4	Ⓐ



**Dimensions and Drawing**

Dimensions (H x W x D approximate)  
 18" x 14.5" x 4.62" (457.2mm x 368.3mm x 118.0mm)

