# Altronix®

T2PXK7F8DV (Kit)

Access & Power Integration Solution for Paxton

TRΩVE™

Altronix T2PXK7F8DV kit consists of Trove2 enclosure, TPX2 Paxton/Altronix backplane with one (1) 24VDC @ 10A power supply/charger, one (1) PTC protected eight (8) output access power controller and one (1) PTC protected eight (8) dual output power distribution module and one (1) voltage regulator. This kit also accommodates Paxton Net2 Plus boards for up to eight (8) doors or Paxton10 for up to six (6) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.

Paxton Access

T2PXK7F8DV with eight (8) Net2 boards
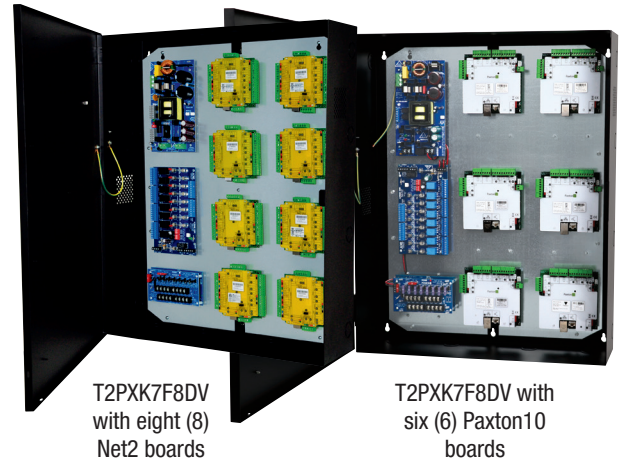
T2PXK7F8DV with six (6) Paxton10 boards

Paxton boards are not included

Key Features

- 24VDC @ 10A power supply charger
- Accommodates the following Paxton modules: Net2 Plus, Paxton10
- Convenient knockout configuration:
  - One (1) single knockout 2.415" (2" Conduit)
  - Sixteen (16) double knockouts
    1.362" (1" Conduit) / 1.115" (3/4" Conduit)
- 16 AWG galvanized steel backplane simplifies board layout and wire management

- Enclosure accommodates up to four (4) 12VDC/12AH batteries
- Supervision
  - AC Fail
  - Low Battery and Battery Presence
  - Low power shutdown
- CE European Conformity
- Lifetime Warranty*

Altronix Power Supply/Chargers and Sub-Assemblies only

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Specifications

Power Supply/Charger (eFlow104NBV):

Input

Voltage	220VAC (working range 198VAC - 256VAC), 50/60Hz, 2.7A
Input Fuse	6.3A/250V

Output

Voltage	24VDC @ 10A
Auxiliary	1A (unswitched)
Protection	Overvoltage protection. Filtered and regulated

Battery Charging

Capacity	12VDC/12AH (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. Prevents deep battery discharge

Indicators (LED)

AC Input	220VAC is present
DC Output	Powered
Battery	Discharged or not connected

Access Power Controller (ACM8CB):

Input

Voltage	24VDC from eFlow104NBV
Input Fuse	10A/250V

Outputs

Voltage	12VDC

Eight (8) 24VDC independently controlled PTC 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 PTCs	2.5A

Indicators (LED)

Red LEDs	Outputs are triggered (relays energized)
Green LED	FACP disconnect is triggered

Voltage Regulator (VR6):

Input

Voltage	24VDC from eFlow104NBV

Output

Voltage	12VDC
Current	6A continuous
Other	Surge suppression

Indicators (LED)

Input	24VDC is present
Output	Powered

Dual Input Power Distribution Module (PDS8CB):

Input

Voltage	24VDC from eFlow104NBV and 12VDC from VR6
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

T2PXK7F8DV 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" (825.5mm x 673.1mm x 282.6mm)

Weight (approx.)

Product:	51.5 lb. (23.36 kg)
Shipping:	54.5 lb. (24.72 kg)

Temperature

Operating	0ºC to 49ºC (32ºF to 120ºF)
Storage	– 20ºC to 70ºC (– 4ºF to 158ºF)
Relative Humidity	85% +/– 5%
BTU/Hr. (approx.):	145 BTU/Hr.

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Access Controller Position Chart for the Following Models:

Paxton	Pem Mounting
Net2 Plus, Paxton10	Ⓐ

Altronix
Power Supply

Ⓐ Paxton
Net2 Plus
Paxton10

Ⓐ Paxton
Net2 Plus
Paxton10

Ⓐ Paxton
Net2 Plus

Ⓐ Paxton
Net2 Plus

Altronix
ACM8(CB)

Paxton10

Paxton10

Ⓐ Paxton
Net2 Plus

Ⓐ Paxton
Net2 Plus

Altronix PDS8(CB)

Ⓐ Paxton
Net2 Plus
Paxton10

Ⓐ Paxton
Net2 Plus
Paxton10

VR6 is mounted under PDS8(CB)
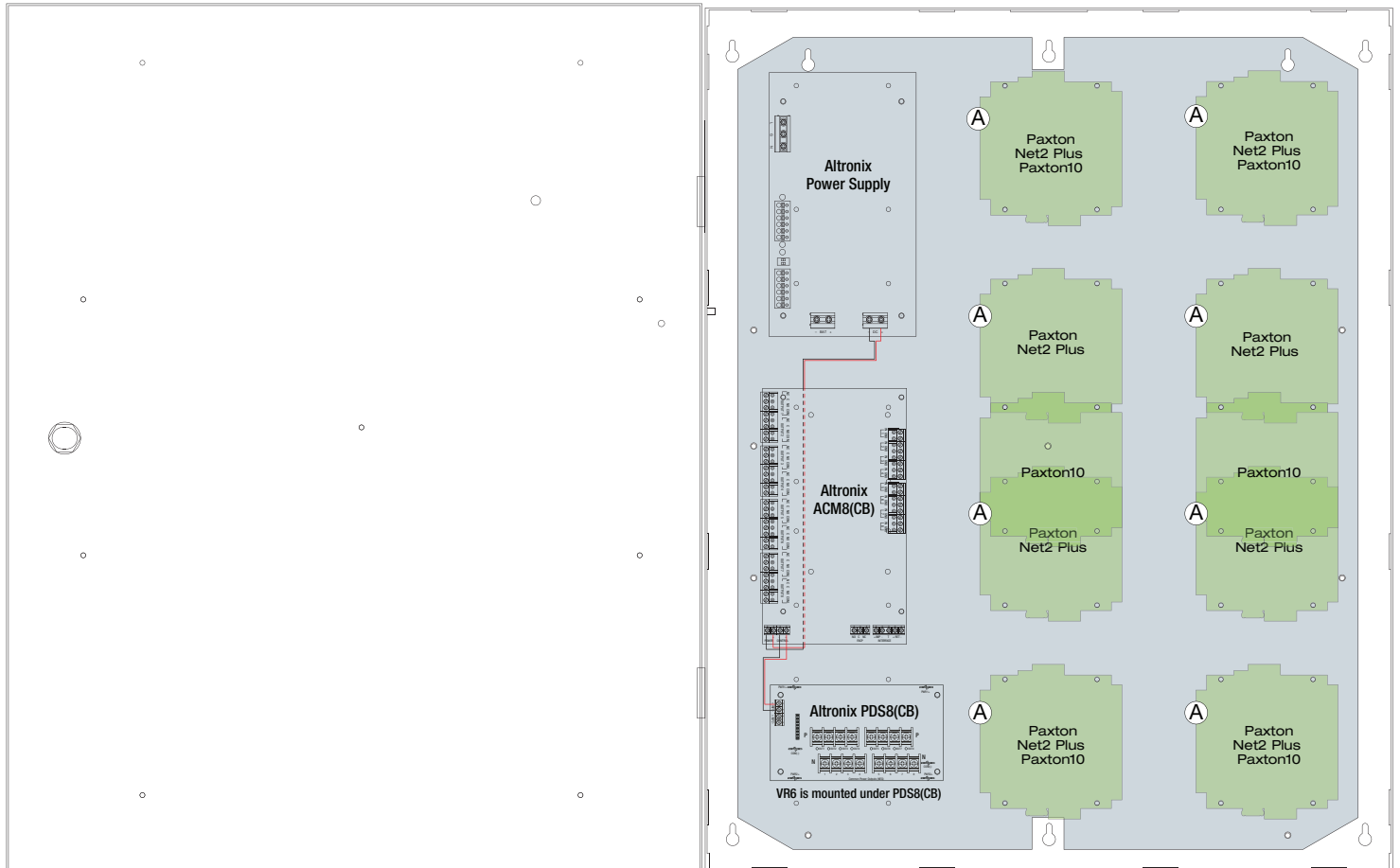
Accessories (order separately)

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, VR6, 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)