SWIFTLANE

T2SFK12D (Kit)

Access & Power Integration Solution for Swiftlane

Altronix TROVE™

Altronix T2SFK12D kit consists of Trove2 enclosure, TSF2 Swiftlane/Altronix backplane with 24VDC @ 10A power supply/charger, one (1) 16-dual output PTC power distribution module and one (1) voltage regulator.

This kit also accommodates up to six (6) Swiftlane Controls Door Controller 5 (SL-DCU-5) boards. Trove simplifies board layout and wire management, reduces installation time and labor costs.

T2SFK7F12D

Swiftlane boards are not included

Key Features

- 24VDC power supply/charger

- Accommodates up to six (6) Swiftlane Controls Door Controller 5 (SL-DCU-5) boards

- Convenient knockout configuration:
  - One (1) single knockout 2.415" (2" Conduit)
  - Sixteen (16) double knockouts
    1.362" (1" Conduit) / 1.115" (3/4" Conduit)

- Twelve (12) mounting magnets with standoffs and Pan Head Screws to mount additional three (3) Swiftlane Controls Door Controller 5 (SL-DCU-5) boards

- 16 gauge 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

- 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

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Specifications

Power Supply/Charger (eFlow104NB):

Input

Voltage	120VAC, 60Hz 4.5A
Input Fuse	6.3A/250V

Output

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

Battery Charging

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	

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)

AC Input	120VAC is present
DC Output	Powered
Battery	Discharged or not connected

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 Power Distribution Module (PDS16CB):

Input

Voltage	24VDC from eFlow104NB and 12VDC from VR6
Input PTCs	9A

Outputs

Voltage	12VDC and/or 24VDC

Any of the sixteen (16) 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	Sixteen (16) individual output LEDs
Green:	12VDC
Red:	24VDC

T2SFK12D 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" (825.5mm x 673.1mm x 282.6mm)

Weight (approx.)

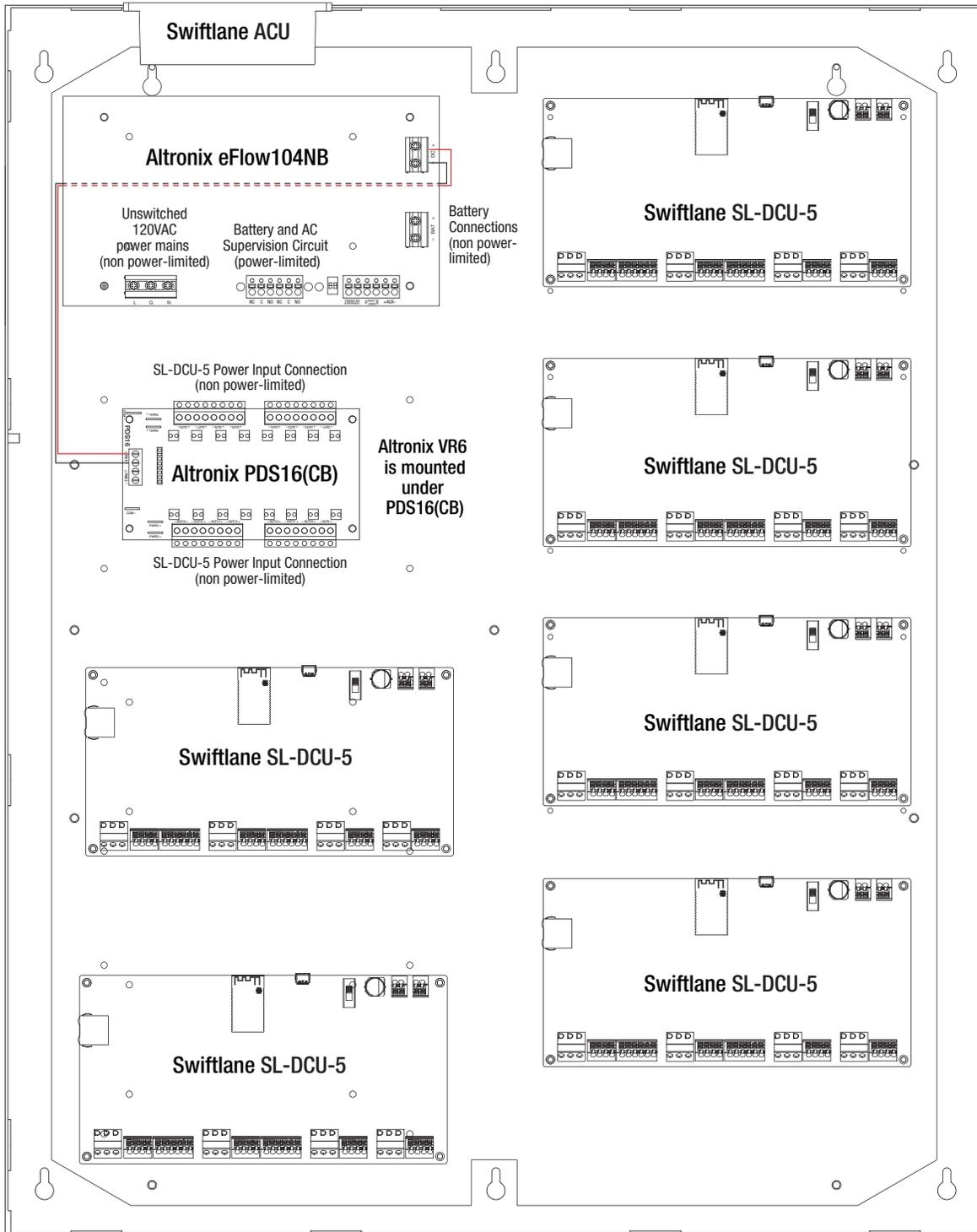|	
Product	54.7 lb. (24.8 kg)
Shipping	59.7 lb. (27.1 kg)

Temperature

Operating	0ºC to 49ºC (32ºF to 120ºF)
Storage	− 20ºC to 70ºC (− 4ºF to 158ºF)
Relative Humidity	85% +/− 5%
BTU/Hr (approx.):	123 BTU/Hr.

Access Controller Position Chart for Swiftlane Controls Door Controller 5 (SL-DCU-5):

Swiftlane ACU

Altronix eFlow104NB

Unswitched 120VAC power mains (non power-limited)

Battery and AC Supervision Circuit (power-limited)

Battery Connections (non power-limited)

SL-DCU-5 Power Input Connection (non power-limited)

Altronix PDS16(CB)

Altronix VR6 is mounted under PDS16(CB)

SL-DCU-5 Power Input Connection (non power-limited)

Swiftlane SL-DCU-5

Swiftlane SL-DCU-5

Swiftlane SL-DCU-5

Swiftlane SL-DCU-5

Swiftlane SL-DCU-5

Swiftlane SL-DCU-5

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, WM1OO - 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

MM4S, MM8S - 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.

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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)

21.50" (546.1mm)

2.00" (50.8mm)
5.25" (133.35mm)
3.5"(88.9mm)
3.5"(88.9mm)
5.25" (133.35mm)
2.00" (50.8mm)

1.25" (31.8mm)

0.685" (17.4mm)

0.5625" (14.3mm)

Knockouts
1.125" (28.3mm)

1.77" (45mm)

6.25" (158.8mm)

⌀ 2.415" (61.3mm)
0.885" (22.5mm)

1.5" (38.1mm)

6.25" (158.8mm)
1.25" (31.8mm)

19.80" (502.9mm)

2.00" (50.8mm)

6.75" (171.5mm)

8.25" (209.5mm)

27" (685.8mm)

8.00" (203.2mm)

0.85" (21.6mm)

2.00" (50.8mm)

1.00" (25.4mm)

1.25" (31.8mm)

1.25" (31.8mm)

2.00" (50.8mm)
5.25" (133.4mm)
7.00" (177.8mm)
5.25" (133.4mm)
2.00" (50.8mm)