

# T1RAL3F8

## Rack Access and Power Integration Solution



Altronix T1RAL3F8 Trove™ Rack kit is pre-assembled and consists Trove1R enclosure and TAL1R Altronix backplane with 12VDC or 24VDC (factory set at 24VDC) @ 6A power supply/charger, 12VDC voltage regulator, eight (8) output fused dual output power distribution module and eight (8) output fused dual output access control module. Trove simplifies board layout and wire management, reduces installation time and labor costs.



T1RAL3F8

### Key Features

- Output Power:
  - Eight (8) individually selectable 12VDC or 24VDC fused lock power outputs rated at 6A total max.
  - Fire Alarm Disconnect is individually selectable by output
  - Eight (8) individually selectable 12VDC or 24VDC fused power outputs rated at 6A max. for readers, REXs, controllers, etc.
- Power status LED on front panel
- Includes cam lock, tamper switch and mounting hardware
- Simplified board layout and wire management
- 6' IEC320 3-wire power cord
- 2U drawer on extendable rails
- Black powder coated steel enclosure
- Convenient knockout configuration:
  - Four (4) double knockouts - 3/4" Conduit and 1" Conduit
  - Two (2) double knockouts - 1/2" Conduit and 3/4" Conduit
- Included Z Bracket facilitates ease of wiring
- CE European Conformity
- Lifetime Warranty\*

*\*Altronix Power Supply/Charger and Sub-Assemblies only*

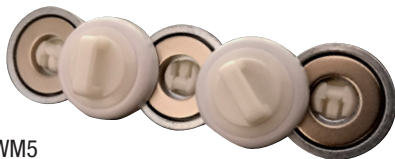
### Accessories (order separately)



RE2

#### RE2 - Rack Mount Battery Enclosure

accommodates up to four (4) 12VDC/7AH batteries



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.

### Specifications

#### Power Supply/Charger (eFlow6NB):

##### Input

Voltage	120VAC, 60Hz, 3.5A max.
Main Fuse	5A/250V

##### Outputs

Voltage	Factory set at 24VDC
Current	6A continuous
Auxiliary	Class 2 power-limited @ 1A (unswitched)
Other	Overvoltage protection. Filtered and regulated

#### Battery Charging

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	
Battery	Discharged or not connected

#### Dual Input Power Distribution Module (PDS8):

##### Input

Voltage	24VDC from eFlow6NB and 12VDC from VR6
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

#### Voltage Regulator (VR6):

##### Input

Voltage	24VDC from eFlow6NB
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##### 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 eFlow6NB and 12VDC from VR6
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Input Fuses	15A/32V
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##### Outputs

Voltage	12 or 24VDC individually selectable.
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Eight (8) selectable 12VDC - 24VDC independently controlled outputs or eight (8) independently controlled Form "C" relay outputs:

- Fail-Safe and/or Fail-Secure power outputs.
- Form "C" Relays. 28VAC or VDC @ 2.5A Rated.
- Auxiliary power outputs (unswitched).
- 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.
Individual voltage LEDs	
Green:	12VDC
Red:	24VDC

#### T1RAL3F8 Kit:

##### Agency Listings

CE	European Conformity
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#### Physical and Environmental:

##### Dimensions (H x W x D):

Modular 2U standard EIA 19" rack mount chassis
Enclosure: 3.25" x 19.0" x 26.5" (82.6mm x 482.6mm x 673.1mm)
Shipping: 31" x 23" x 8.25" (787.4mm x 584.2mm x 209.6mm)

##### Weights (approx.):

Product:	20 lb. (9.07 kg)
Shipping:	25 lb. (11.34 kg)

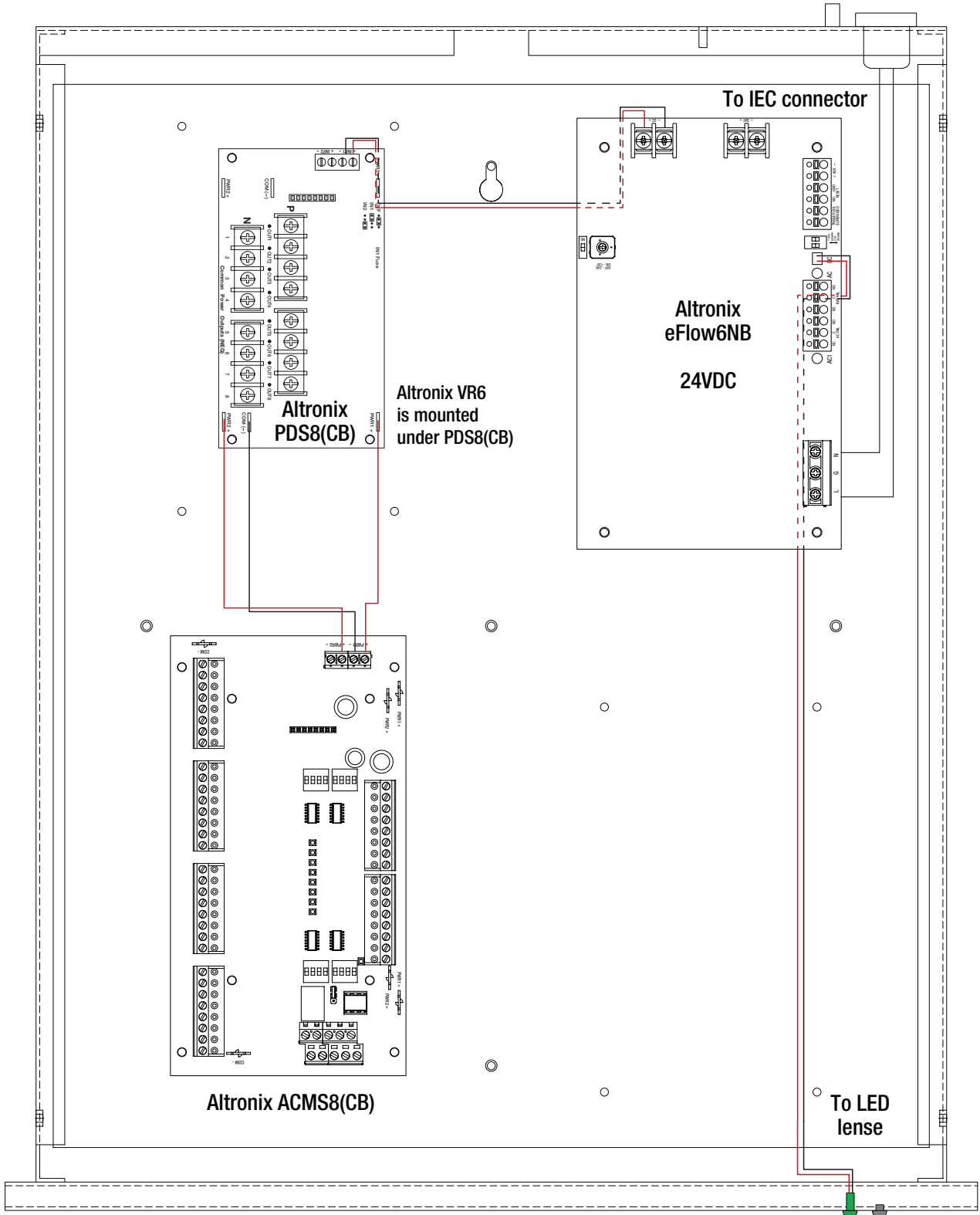
##### Temperature

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%
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BTU/Hr.: 87 BTU/Hr.



**Dimensions and Drawing**

Dimensions (H x W x D approximate)  
3.25" x 19.0" x 26.5" (82.6mm x 482.6mm x 673.1mm)

