

# T1AA3CK1 (Pre-wired Kit)

## Access and Power Integration Solution for Azure



Altronix T1AA3CK1 is a 4-door access and power integration kit which includes Altronix power and sub-assemblies along with factory installed wire management and wire assemblies that are pre-configured with terminal blocks for Azure hardware. This unit provides ample power and dual voltage outputs to support Azure platform controllers and locking devices. The T1AA3CK1 accommodates one (1) 4-Door Network Controller. Trove Plus simplifies field installations and provides reliable, robust critical power and control for the most demanding applications.



T1AA3CK1 - includes eFlow6NB, PDS8, VR6, ACM4, wire harnesses and wire magnets

*Azure boards are not included*

### Key Features

- Accommodates the following Azure boards:
  - 1 - IC4
- Convenient knockout configuration:
  - One (1) knockout - 1-1/2" Conduit
  - Nine (9) double knockouts - 3/4" Conduit and 1" Conduit
- Unit includes:
  - Removable backplane
  - Wire management
  - Custom wire assemblies for power distribution with terminal blocks for controller connections
- 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
- Enclosure accommodates up to two (2) 12VDC/7AH batteries
- 16 gauge galvanized steel backplane simplifies board layout and wire management
- Lifetime Warranty\*

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

**Specifications**

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

<b>Input</b>	
Voltage	120VAC, 60Hz. 3.5A
Input Fuse	5A/250V
<b>Output</b>	
Voltage	24VDC
Current	6A continuous
Auxiliary	1A (unswitched)
Other	Overvoltage protection. Filtered and regulated

**Battery Charging**

Capacity	7AH/12VDC (2 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
<b>Low DC Power Shutdown</b>	
Shuts down DC output terminals if battery voltage drops below 70-75% for 24V units (depending on the power supply)	
Prevents deep battery discharge	

**Indicators (LED)**

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

**Dual Input Power Distribution Module (PDS8)**

<b>Input</b>	
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):**

<b>Input</b>	
Voltage	24VDC from eFlow6NB
<b>Output</b>	
Voltage	12VDC
Current	6A continuous
Other	Surge suppression

**Indicators (LED)**

Input	24VDC is present
Output	Powered

**Access Power Controller (ACM4):**

<b>Input</b>	
Voltage	24VDC from eFlow6NB
Input Fuse	10A/32V

**Outputs**

Voltage	24VDC
Four (4) independently controlled fused 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 Fuses	3A/32V
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**Indicators (LED)**

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

**T1AA3CK1 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
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**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.)**

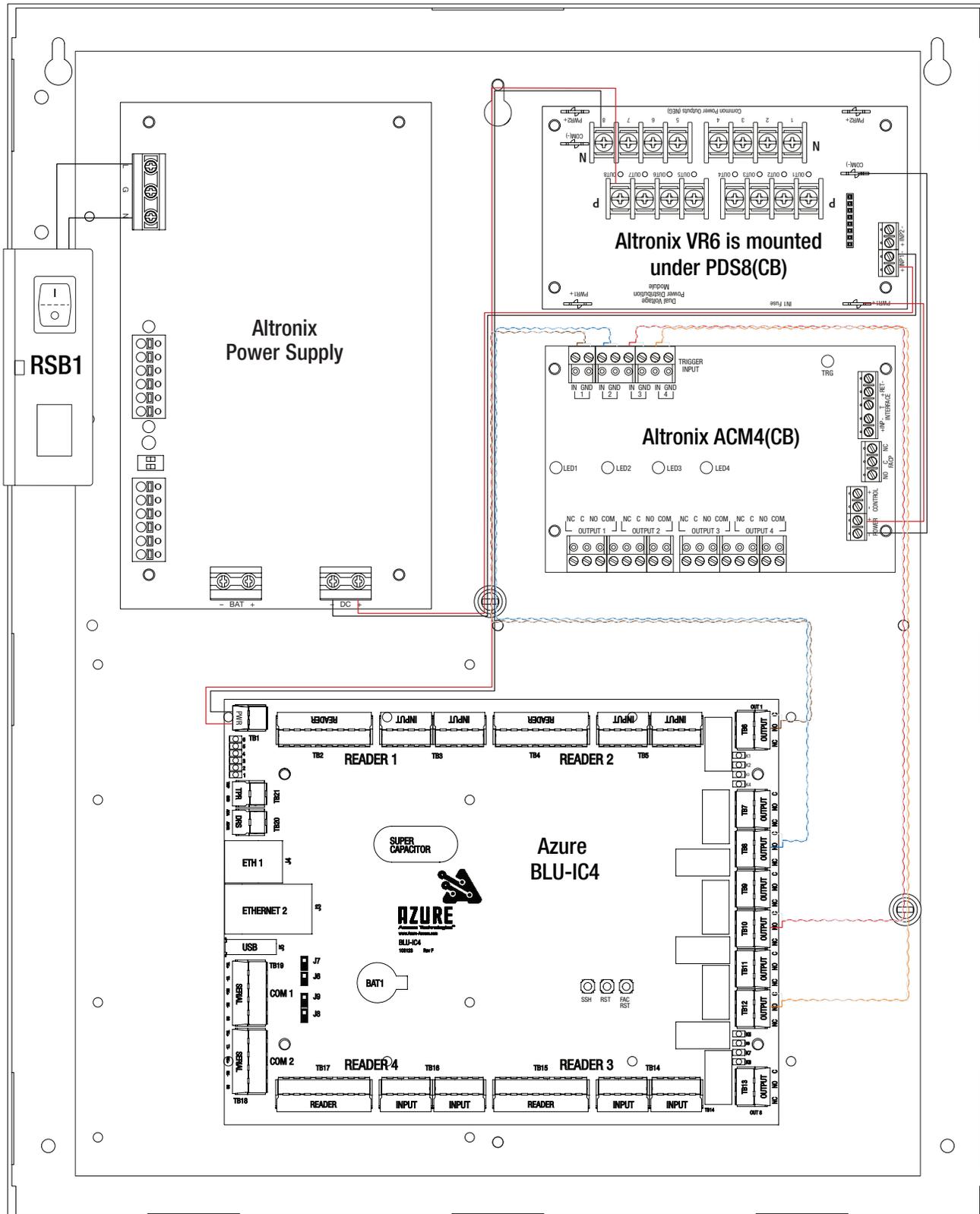
Product	18.0 lb. (8.17 kg)
Shipping	22.0 lb. (9.98 kg)

**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 (approx.):	90 BTU/Hr.
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**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.

**Dimensions and Drawing**

Dimensions (H x W x D approximate)  
 18.0" x 14.5" x 4.625" (457.2mm x 368.3mm x 117.5mm)

