Altronix®

Rev. 08302023

T1AA3CK1D (Pre-wired Kit)

Access and Power Integration Solution for Azure

TROVE PLUS

Altronix T1AA3CK1D 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 T1AA3CK1D 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.

AZURE Access Technology™

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*

Altronix Corporation | 140 58th St | Brooklyn, NY 11220 USA
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Specifications

Power Supply/Charger (eFlow6NB):

Input

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

Output

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

Low DC Power Shutdown

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

Access Power Controller (ACM4CB):

Input

Voltage	24VDC from eFlow6NB
Input PTC	9A

Outputs

Voltage	24VDC

Four (4) 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 eFlow6NB

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 eFlow6NB 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

T1AA3CK1D 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	16.23 lb. (7.36 kg)
Shipping	20.23 lb. (9.07 kg)

Temperature

Operating	0ºC to 49ºC (32ºF to 120ºF)
Storage	– 20ºC to 70ºC (– 4ºF to 158ºF)

Relative Humidity	85% +/– 5%
BTU/Hr (approx.):	87 BTU/Hr.

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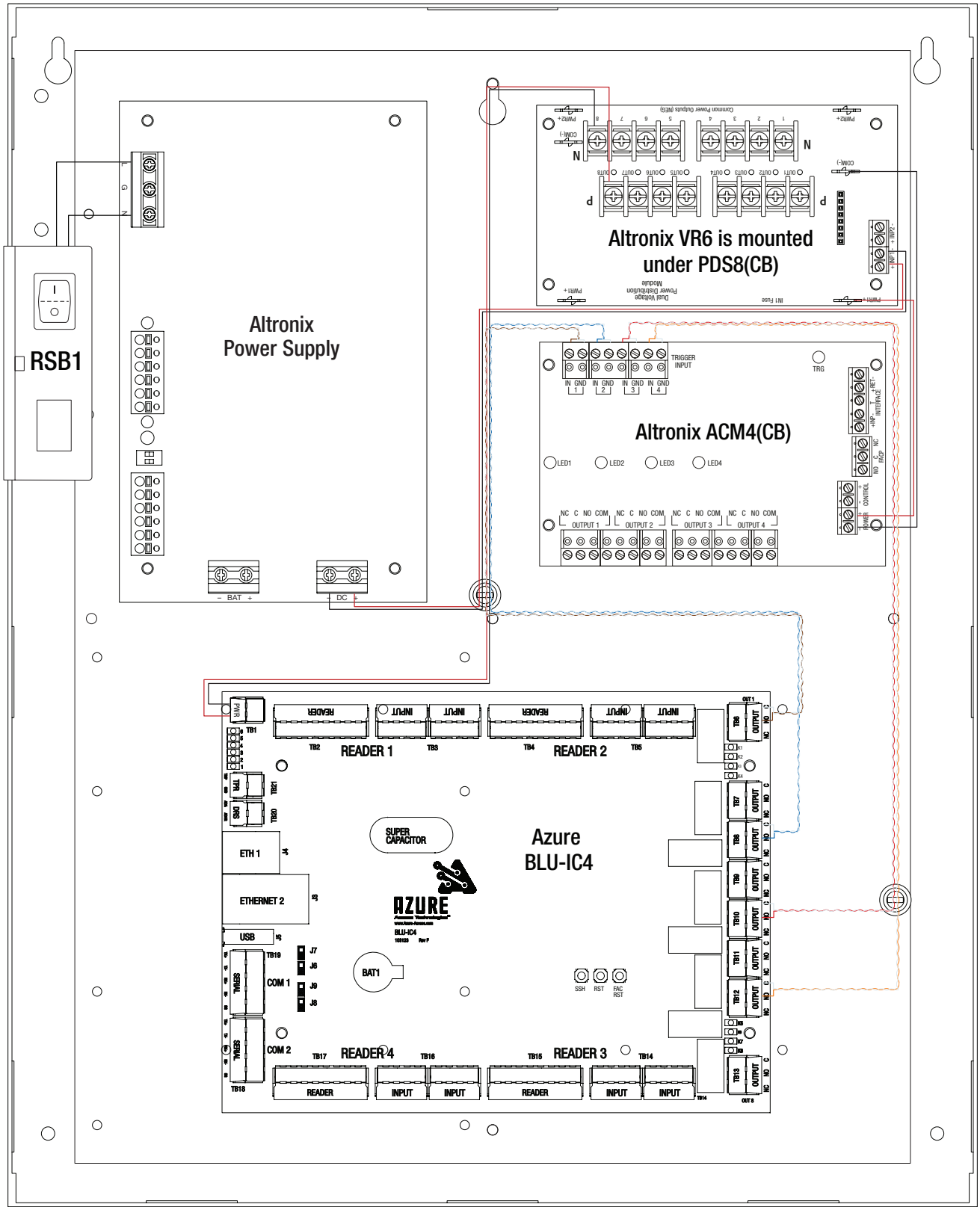

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Accessories (order separately)

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.

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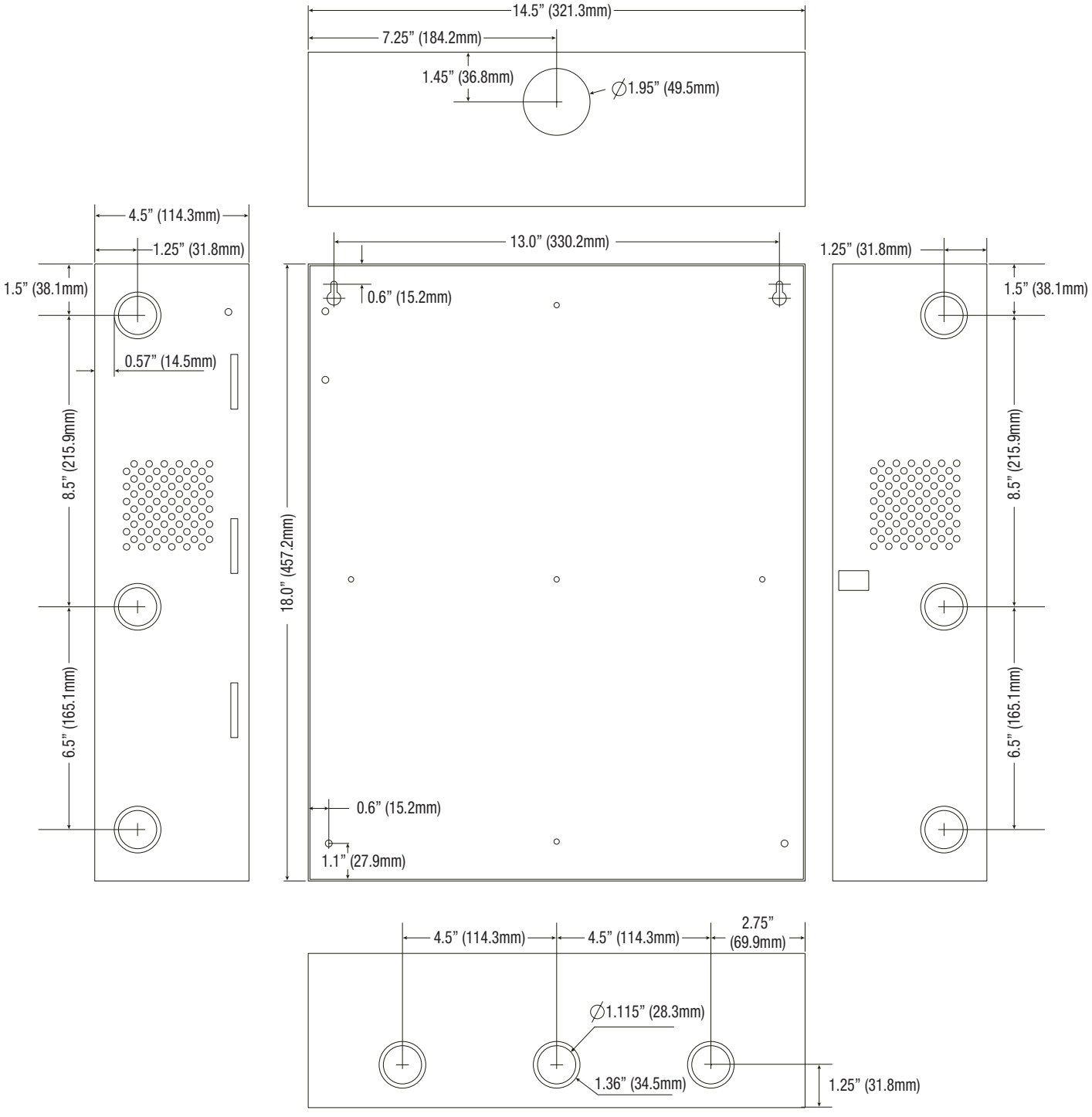
Dimensions and Drawing

Dimensions (H x W x D approximate)

18.0" x 14.5" x 4.625" (457.2mm x 368.3mm x 117.5mm)



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