Altronix®

Rev. 10082024

T1RZ3CK1 (Pre-wired Kit)

Rack Access and Power Integration Solution for Mercury

TROVE PLUS

Altronix T1RZ3CK1 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 ZKTeco hardware. This unit provides ample power and dual voltage outputs to support ZKTeco platform controllers and locking devices. The T1RZ3CK1 accommodates one (1) Atlas 460 four (4) door controller. Trove Plus simplifies field installations and provides reliable, robust critical power and control for the most demanding applications.

ZKTeco

T1RZ3CK1 - includes eFlow6RLB, ACMS8, VR6, wire harnesses and management

ZKTeco boards are not included

Key Features

- Accommodates the following ZKTeco controllers:
  1 - Atlas 460
- Power status LED on front panel
- Simplified board layout and wire management
- Convenient knockout configuration:
  - Four (4) double knockouts - 3/4" Conduit and 1" Conduit
  - Two (2) double knockouts - 1/2" Conduit and 3/4" Conduit
- 6' IEC320 3-wire power cord
- 2U drawer on extendable rails
- Black powder coated steel enclosure
- Included Z Bracket facilitates ease of wiring
- Includes cam lock, tamper switch and mounting hardware
- 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.

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Specifications

Power Supply/Charger (eFlow6RLB):

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

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

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 Access Power Controller (ACMS8):

Input

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

Outputs

Voltage: 12 or 24VDC individually selectable

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

a) Fail-Safe and/or Fail-Secure power outputs

b) Form "C" Relays. 28VAC or VDC @ 2.5A Rated

c) Auxiliary power outputs (unswitched)

d) 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

Indicators (LED)

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

Individual voltage LEDs:

Green:	12VDC
Red:	24VDC

T1RZ3CK1 Kit:

Agency Listings

CE	European Conformity

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:	0ºC to 49ºC (32ºF to 120ºF)
Storage:	– 20ºC to 70ºC (– 4ºF to 158ºF)
Relative Humidity	85% +/– 5%
BTU/Hr.:	87 BTU/Hr.

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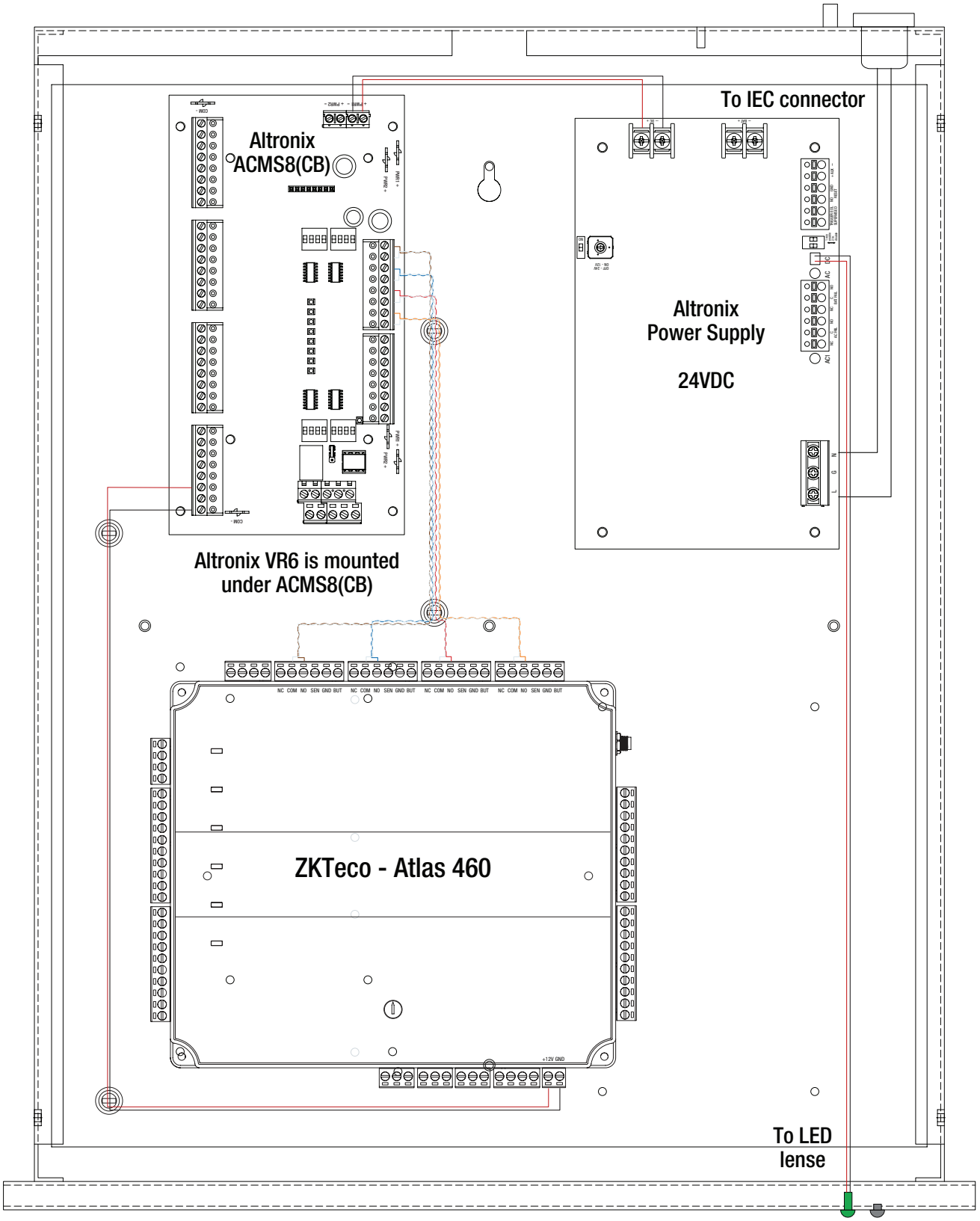

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T1RZ3CK1 (Pre-wired Kit)

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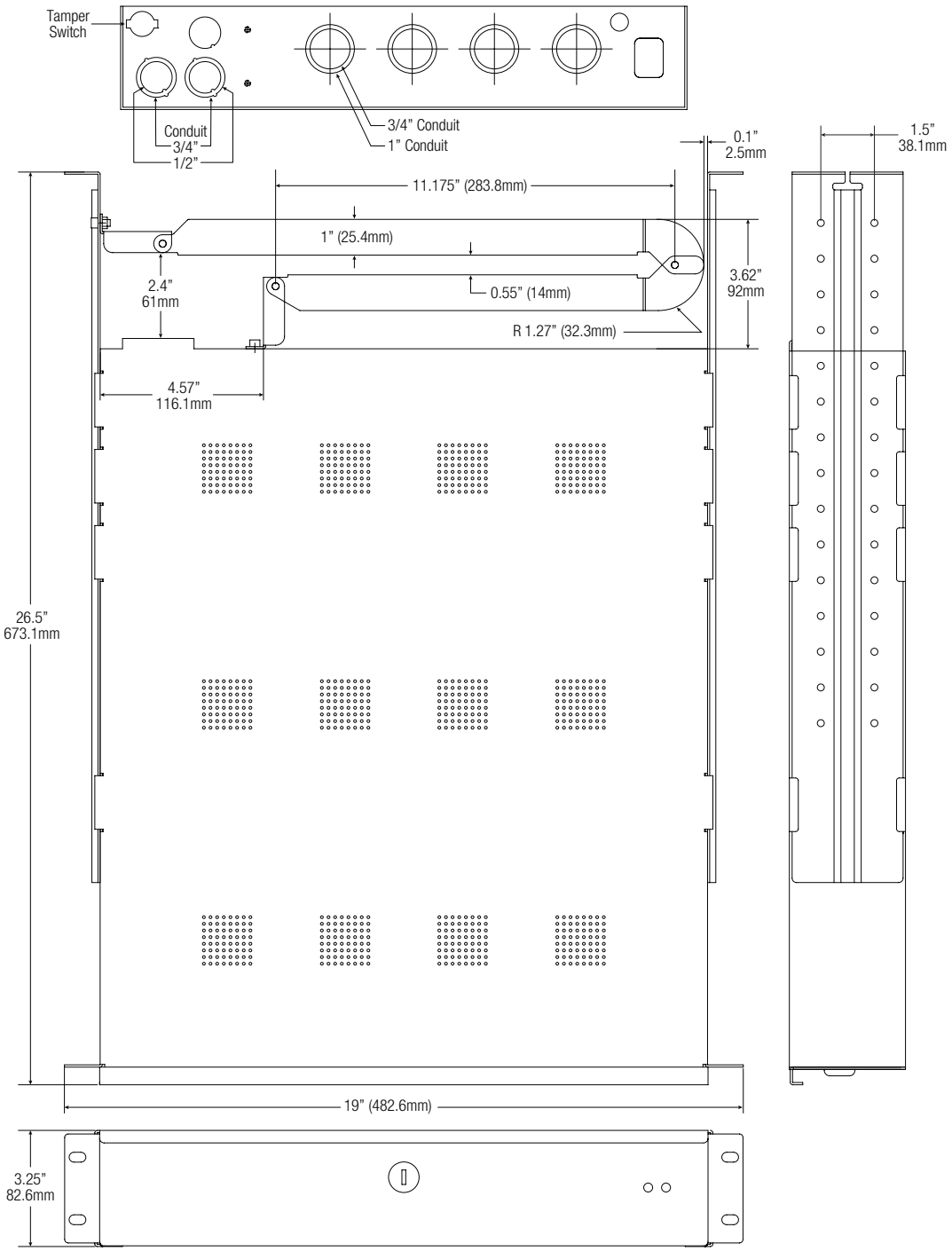
Dimensions and Drawing

Dimensions (H x W x D approximate)

3.25" x 19.0" x 26.5" (82.6mm x 482.6mm x 673.1mm)



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