Altronix®

Rev. 11132024

# T2M7XK1Q2 (Pre-wired Kit)

## Access and Power Integration Solution for Mercury

TROVE PLUS

Altronix T2M7XK1Q2 is a 8-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 Mercury* hardware. This unit provides ample power and dual voltage outputs to support Mercury platform controllers and locking devices. The T2M7XK1Q2 accommodates one (1) Intelligent Dual Reader Controller and three (3) Dual Reader Interface Modules. Trove Plus simplifies field installations and provides reliable, robust critical power and control for the most demanding applications.

***Also compatible with these authentic Mercury partners:**
AccessNsite, Avigilon, BadgePass, BluBox, Feenics, Genetec, Identicard, IMRON, Johnson Controls, Kastle, Keri Systems, Lenel/S2, LockState, Maxxess, Midpoint Security, NLSS, Open Options, Panasonic i-PRO MonitorCast, Quintron, RS2, S2 Security, Schneider Electric, Vanderbilt

Mercury™

T2M7XK1Q2 - includes eFlow104NB, LINQ2, ACMS8, VR6, PDS8, wire harnesses and finger duct

*Mercury boards are not included*

## Key Features

- Accommodates the following Mercury controllers:
  1 - LP1502 / LP4502 and 3 - MR52
- Convenient knockout configuration:
  - One (1) single knockout - 2" Conduit
  - Sixteen (16) double knockouts - 1/2" Conduit and 3/4" Conduit
- Unit includes:
  - Removable backplane
  - 2" high finger duct for wire management
  - Custom wire assemblies for power distribution with terminal blocks for controller connections
- Management interface for up to two (2) eFlow power supply/chargers
- Supervision
  - AC Fail
  - Battery Fail and Battery Presence
  - Low power shutdown
- 16 gauge galvanized steel backplane simplifies board layout and wire management
- Enclosure accommodates up to four (4) 12VDC/7AH batteries
- CE European Conformity
- 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 (eFlow104NB):

**Input**
- Voltage: 120VAC, 60Hz, 4.5A max
- Input Fuse: 6.3A/250V

**Output**
- Voltage: 24VDC @ 10A
- Auxiliary: 1A (unswitched)
- Protection: Overvoltage protection. Filtered and regulated

**Battery Charging**
- Capacity: 12VDC/7AH (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 (depending on the power supply). Prevents deep battery discharge

**Indicators (LED)**
- AC Input: 120VAC is present
- DC Output: 24VDC is present
- Battery: Discharged or not connected

### Network Communication Module (LINQ2):

**Status Monitoring**

AC status; Output current draw; Unit's temperature; DC output voltage; Low Battery/Battery presence detection
Input trigger state change; Output (relay and power supply) state change

**Programming**

Battery service date indication
Programmable via USB or web browser
Automated timed events:
- Control output relays and power supply via flexible timing parameter

**Reporting**

Programmable dashboard notifications
E-mail notification selectable by event
Event log tracks history (100+ events)

**Indicators (LED)**
- Blue LED: Power ON

### 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 Access Power Controller (ACMS8):

**Input**
- Voltage: 24VDC from eFlow104NB 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

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

**Input**
- Voltage: 24VDC from eFlow104NB 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

### T2M7XK1Q2 Kit:

**Agency Listings**
- CE: European Conformity

All components of this Trove kit are UL Listed sub-assemblies
Please refer to the corresponding Sub-Assembly Installation Guides for further information

**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: 41.6 lb. (18.87 kg)
  - Shipping: 45.6 lb. (20.68 kg)
- Temperature
  - Operating: 0ºC to 49ºC (32ºF to 120ºF)
  - Storage: – 20ºC to 70ºC (– 4ºF to 158ºF)
- Relative Humidity: 85% +/– 5%
- BTU/Hr. (approx.): 145 BTU/Hr.

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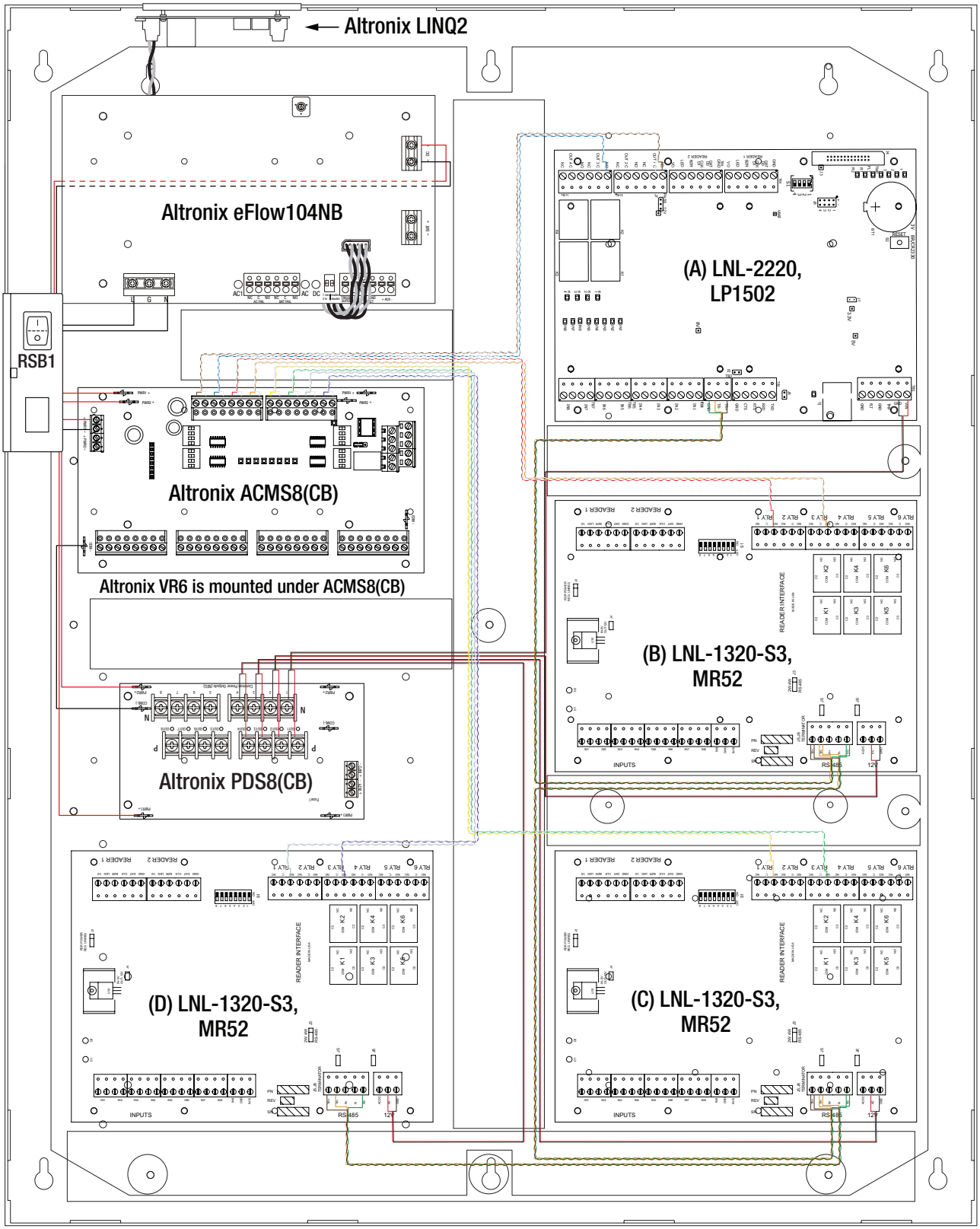


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## Accessories (order separately)

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.

BR1

### 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.

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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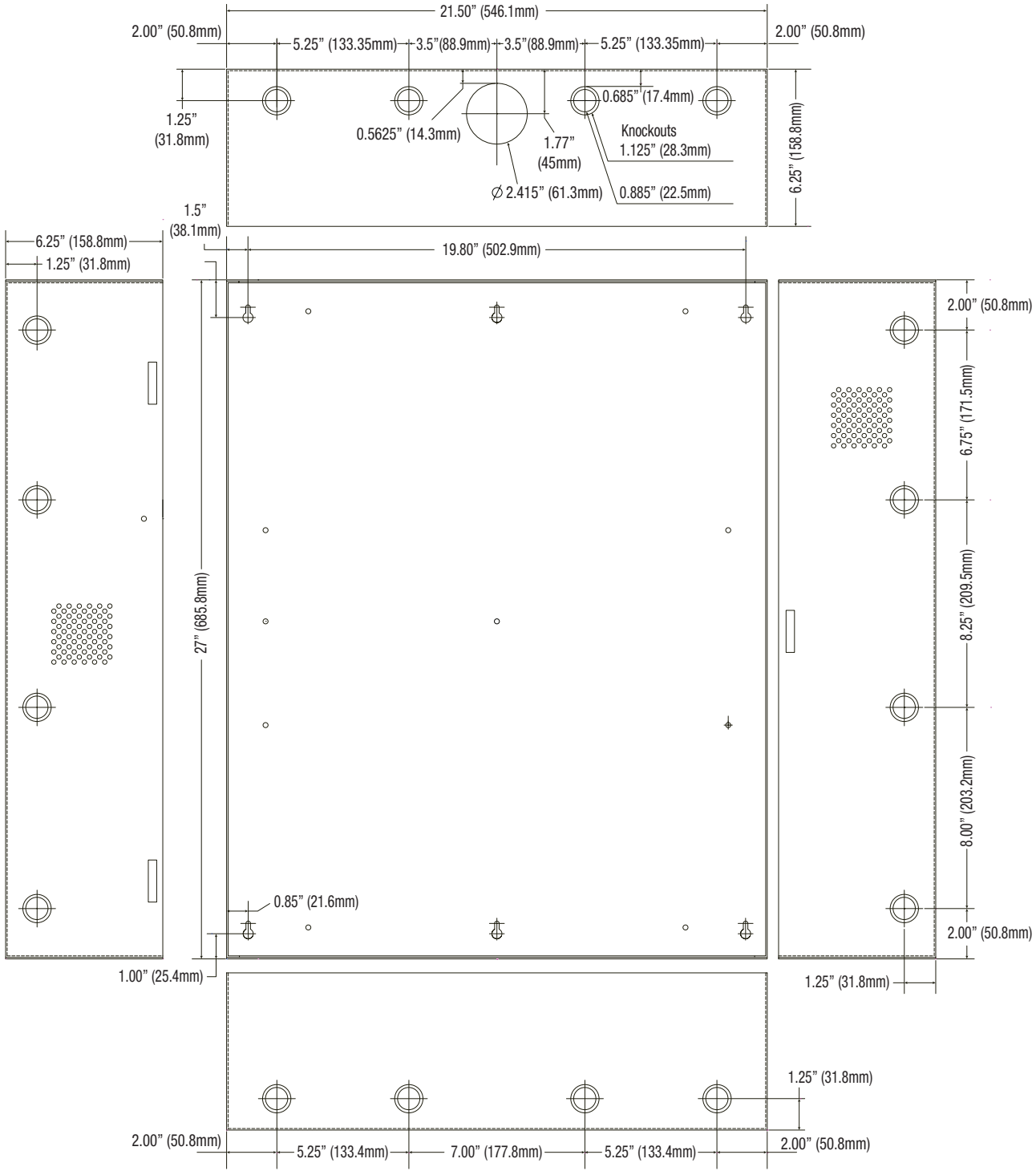
## Dimensions and Drawing

Dimensions (H x W x D approximate)

27.25” x 21.5” x 6.5” (692.2mm x 546.1mm x 165.1mm)

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