Altronix®

Rev. 02212024

T3M77CK1DQ (Pre-wired Kit)

Access and Power Integration Solution for Mercury

TROVE PLUS

Altronix T3M77CK1DQ is a 16-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 T3M77CK1DQ accommodates up to one (1) Intelligent Dual Reader Controller and seven (7) 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, LockState, Maxxess, Midpoint Security, NLSS, Open Options, Panasonic i-PRO MonitorCast, Quintron, RS2, S2 Security, Schneider Electric, Vanderbilt.

Mercury

T3M77CK1DQ - includes (2) eFlow104NB, (2) LINQ8ACMCB, (2) VR6, (2) LINQ8PDCB, wire harnesses and management

Mercury boards are not included

Key Features

- Accommodates the following Mercury controllers: 1 - LP1502 / LP4502 and 7 - MR52
- Programmable Features:
  - Fail-safe, fail-secure or auxiliary outputs
  - High & low voltage & current monitoring by output
  - Battery back-up by output
  - Any combination of the above
  - Monitor power supplies' input for voltage & current limits
  - Programmable timer events, user levels
  - Enable or disable alerts by type
  - Programmable alert reporting delay
- Unit includes:
  - Removable backplane
  - Custom wire harnesses for power distribution and controller connections
  - Custom wire assemblies for power distribution with terminal blocks for controller connections
- Convenient knockout configuration:
  - One (1) single knockout 2.415" (2" Conduit)
  - Two (2) double knockouts 1.948" (1.5" Conduit) / 1.701" (1.25" Conduit)
  - Thirteen (13) double knockouts 1.362" (1" Conduit) / 1.115" (3/4" Conduit)
- Supervision
  - AC Fail
  - Low Battery and Battery Presence
  - Low power shutdown
- 16 gauge galvanized steel backplane simplifies board layout and wire management
- Enclosure accommodates up to four (4) 12VDC/12AH 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

Two (2) Power Supplies (eFlow104NB):

Input
- Voltage: 120VAC, 60Hz, 9A max
- Input Fuse: 6.3A/250V

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

Battery Charging
- Capacity: 12VDC/12AH (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

Two (2) Network Access Power Controllers (LINQ8ACMCB):

Input
- Voltage: 24VDC from eFlow104NB and 12VDC from VR6
- Input PTCs: 9A

Outputs
PTC protected outputs
Any of the eight (8) PTC protected 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

Programming Features:

Eight (8) Programmable Outputs:
- Fail-safe, fail-secure or auxiliary outputs
- Input controlled or manually controlled through software
- High (over) and low (under) voltage and current monitoring by output
- Multiple outputs may be programmed to be triggered by a single input
- Battery back-up by output

Eight (8) Programmable Trigger Inputs:
- Normally open (NO), Normally closed (NC) or Open collector sink inputs
- Wet Input (5VDC - 24VDC) with 10k resistor
- Any combination of the above

Other Programmable Trigger Inputs:
- Monitor power supply(ies) input for voltage and current limits (high/low)
- Input and output current calibration, Programmable timer events
- Programmable user levels, Enable or disable alerts by type
- Programmable alert reporting delay

Indicators (LED)
- **Green AC LED:** indicates AC trouble condition
- **Green BAT LED:** indicates battery trouble condition
- **Green FACP LED:** indicates FACP disconnect is triggered
- **Flashing Blue Heartbeat LED:** indicates network connection
- **Individual OUT1 - OUT8 Red LEDs:** indicate outputs are triggered
- **Individual Voltage LEDs:** indicate 12VDC (Green) or 24VDC (Red)

Two (2) Voltage Regulators (VR6):

Input
- Voltage: 24VDC from eFlow104NB

Output
- Voltage: 12VDC
- Current: 6A continuous
- Other: Surge suppression

Indicators (LED)
- Input: 24VDC is present
- Output: Powered

Two (2) Network Power Distribution Modules (LINQ8PDCB):

Input:
- Voltage: 24VDC from eFlow104NB and 12VDC from VR6
- Input Fuses: 15A/32A

Outputs:
- **Output Ratings:** PTC outputs rated 2.5A
- **Other:** Power output can be locally or remotely controlled
  Surge suppresion

Status Monitoring:
Power Supply(ies) output voltage and load
Voltage and load of each output
FACP trigger and reset status
Unit temperature (Celsius)
Power Supply AC and Battery status
Battery health

Indicators (LED):
- Bat Local: Charging current status
- FACP: Triggered / Released
- Input: Input signal
- Out1 - Out8: Output status

Reporting:
Windows Dashboard Alert messages
E-mail notifications
Event Log tracks history

Programming Features:
Power Supply(ies) voltage and load limits (High/Low)
FACP trigger type (wet or dry-NO/NC)
Input Function (FACP reset/tamper)
Output Reset Trigger (NO/NC)
Battery Monitor Configuration:
- Battery condition (Low/Normal/Missing)
- Service Date

Configurable Output Relay(s).
Individual Output Configuration:
- Device ID
- Voltage and Current Limits (High/Low)
- FACP Trigger Setting (latching/non-latching/inactive)
- Battery Backup

Fire Alarm Interface:
Supervised FACP disconnect (Latching or Non-Latching)
FACP reset (NC or NO)

T3M77CK1DQ Kit:

Agency Listings
- CE: European Conformity

Physical and Environmental:
- Dimensions (H x W x D)
  - Enclosure: 36.12" x 30.125" x 7.06" (917.5mm x 768.1mm x 179.3mm)
  - Shipping: 40.75" x 35.25" x 12" (1035.1mm x 895.4mm x 304.8mm)
- Weight (approx.)
  - Product: 95.6 lb. (43.36 kg)
  - Shipping: 108.8 lb. (49.35 kg)
- Temperature
  - Operating: 0ºC to 49ºC (32ºF to 120ºF)
  - Storage: – 20ºC to 70ºC (– 4ºF to 158ºF)
- Relative Humidity: 85% +/– 5%
- BTU/Hr. (approx.): 289 BTU/Hr.

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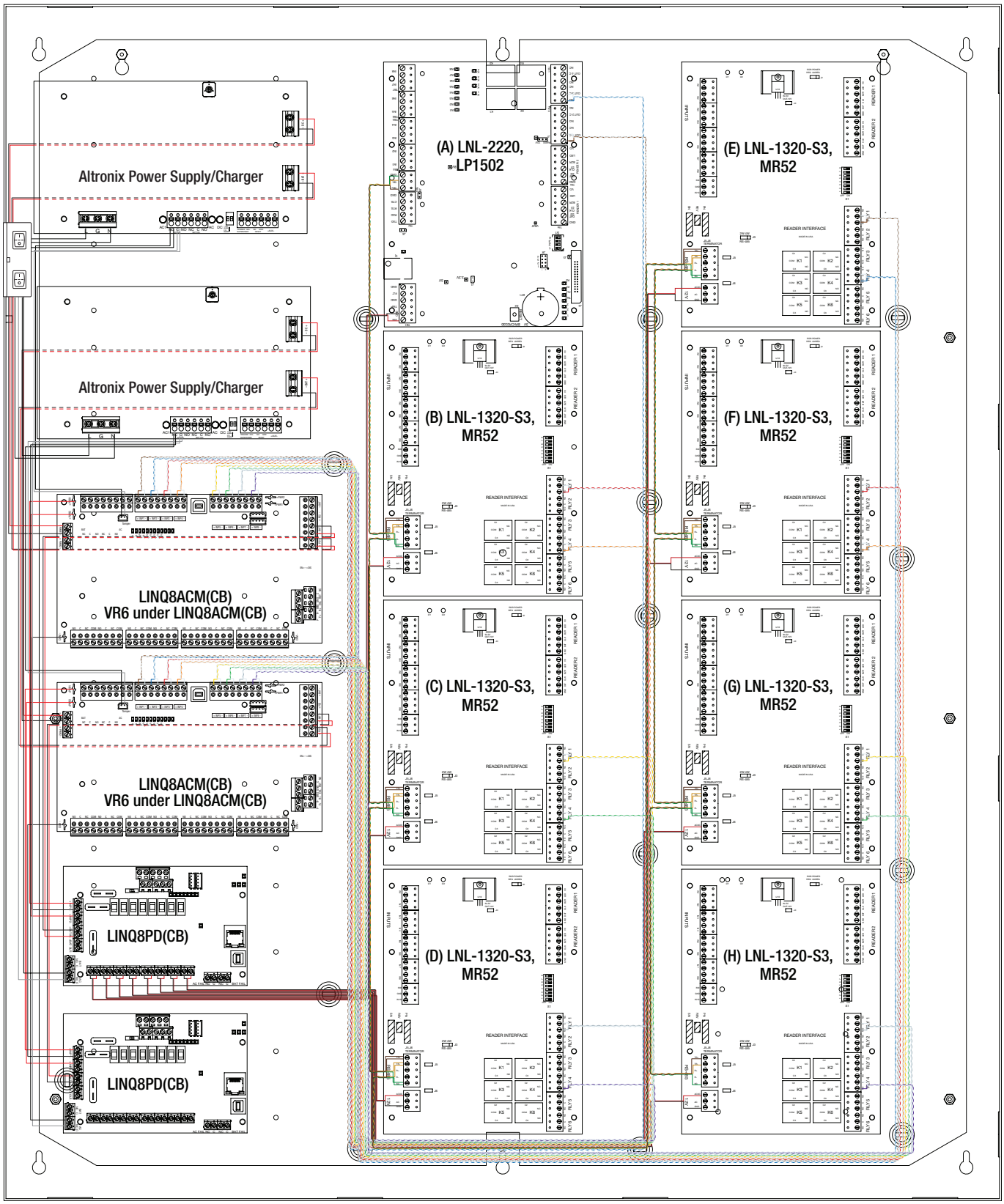

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Accessories (order separately)

WM5

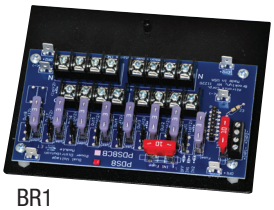
WM5, WM25, WM100 - Magnetic Cable Tie Mounts

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

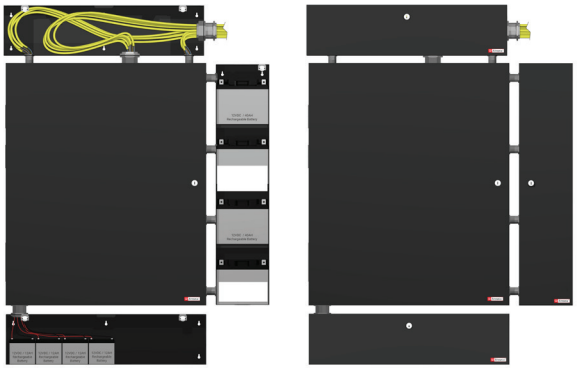
Altronix mounting magnets accommodate screws and nylon standoffs to allow for mounting various boards/ accessories in any metal enclosure or backplane.



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.



Typical battery/wiring setup with Trove3 Enclosure (not included)

TROVE3BWC / TROVE3SWC - Battery/Wire Trough Enclosure

Altronix Trove3BWC and Trove3SWC are dual-purpose enclosures that can be used as wiring troughs or battery cabinets when mounted above or below (Trove3BWC) or on either side (Trove3SWC) of the Trove integrated power and access solution. The knockouts on the Trove3BWC and Trove3SWC have been strategically placed to line up with the Trove3 allowing for easy conduit connections between cabinets.Trove3BWC and Trove3SWC include cam locks and 2 tamper switches each to ensure access to wiring and batteries is secure.

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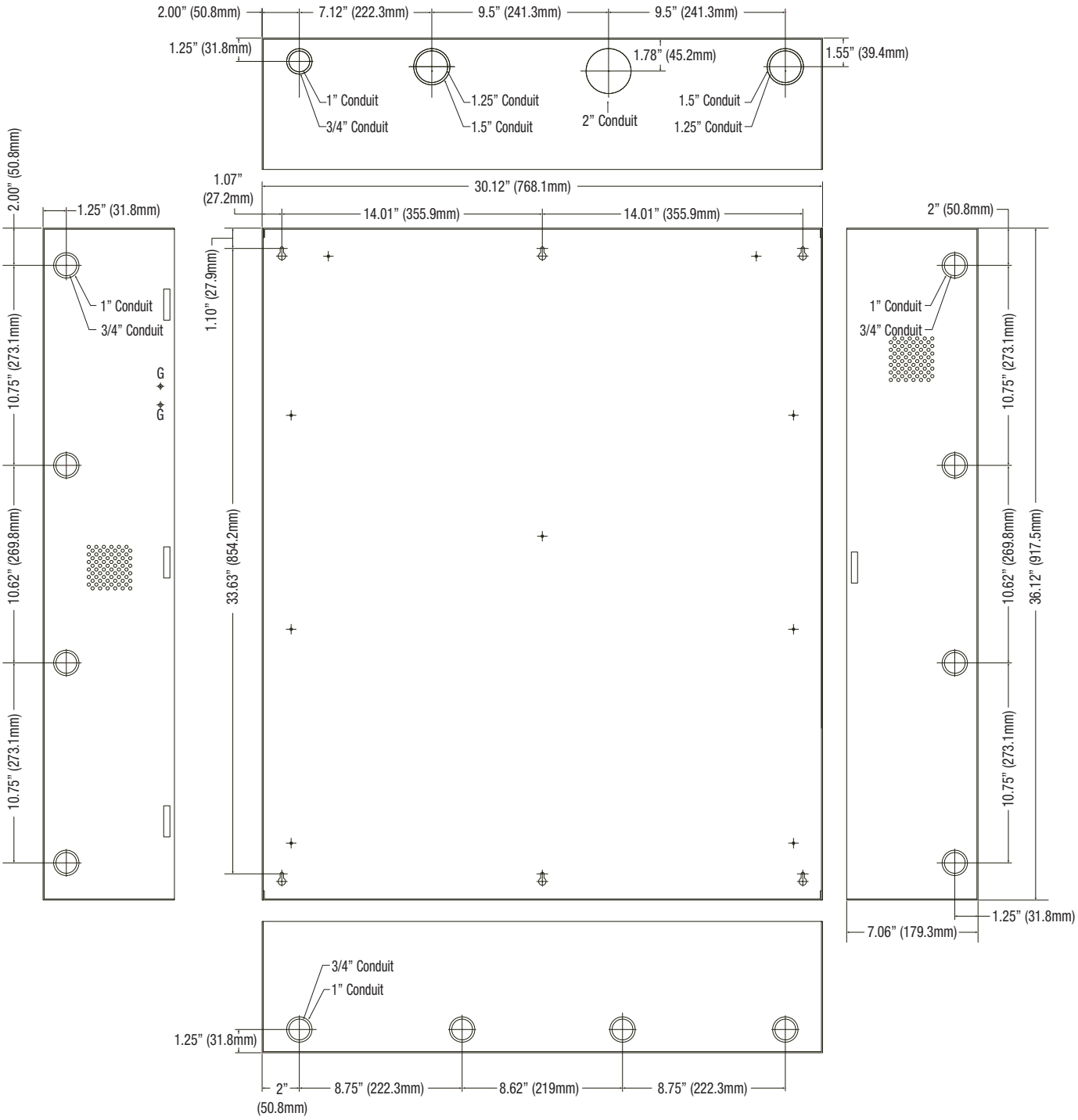
Dimensions and Drawing

Dimensions (H x W x D approximate)

36.12” x 30.125” x 7.06” (917.5mm x 768.1mm x 179.3mm)



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