

T3M75XK1ADQ (Pre-wired Kit)

Access and Power Integration Solution for Mercury



Altronix T3M75XK1ADQ 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 T3M75XK1ADQ 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, Identocard, 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



T3M75XK1ADQ - includes (1) eFlow104NB, (1) eFlow102NB, (2) LINQ8ACMCB, (2) PD8ULCB, wire harnesses and finger duct

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 supply(ies) input for voltage & current limits
 - Programmable timer events, user levels
 - Enable or disable alerts by type
 - Programmable alert reporting delay
- Unit includes:
 - Removable backplane
 - 2" high finger duct for wire management
 - 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*

Specifications

Power Supply/Charger 1 (eFlow104NB):

Input

Voltage	120VAC, 60Hz, 4.5A
Input Fuse	6.3A/250V

Output

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

Power Supply/Charger 2 (eFlow102NB):

Input

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

Output

Voltage	12VDC @ 10A
Auxiliary	1A (unswitched)
Protection	Overvoltage protection. Filtered and regulated

Both Power Supplies:

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 71-73% for 12V units and 70-75% for 24V units (depending on the power supply)
 Prevents deep battery discharge

Indicators (LED)

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

Two (2) Power Distribution Modules (PD8ULCB):

Input

Voltage	12VDC from eFlow102NB
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Outputs

Voltage	12VDC
PTCs	2.5A

Indicators (LED)

Green LED	DC Output
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Two (2) Network Access Power Controllers (LINQ8ACMCB):

Input

Voltage	24VDC from eFlow104NB and 12VDC from eFlow102NB
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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)

T3M75XK1ADQ Kit:

Agency Listings

CE	European Conformity
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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	85.6 lb. (38.83 kg)
Shipping	98.8 lb. (44.82 kg)

Temperature

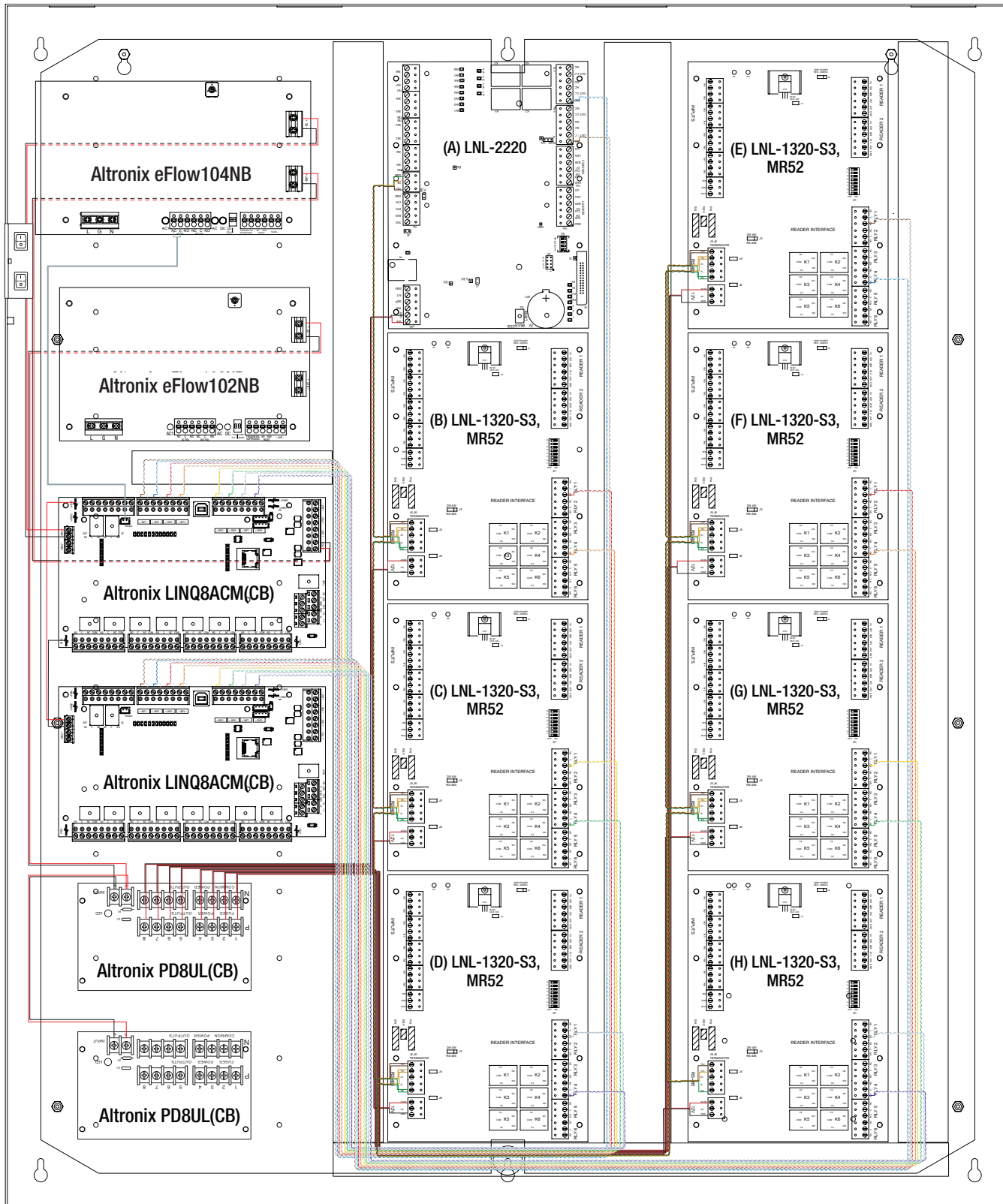
Operating	0°C to 49°C (32°F to 120°F)
Storage	- 20°C to 70°C (- 4°F to 158°F)

Relative Humidity

85% +/- 5%

BTU/Hr (approx.):

217 BTU/Hr.



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

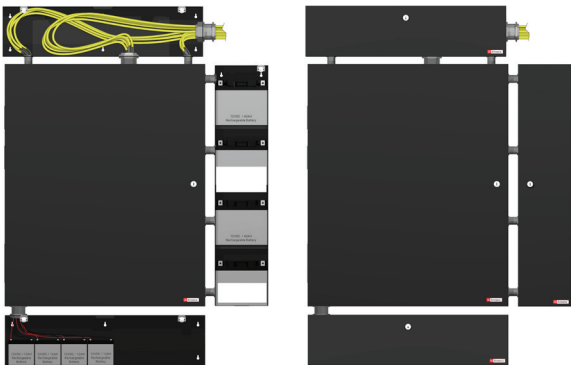
Altronix mounting magnets accommodate screws and nylon standoffs to allow for mounting various boards/accessories in any metal enclosure or backplane.



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.

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)

