

## T2M7XK1DQ (Pre-wired Kit)

Access & Power Integration Solution for Mercury



Altronix T2M7XK1DQ is a networked 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 T2M7XK1DQ 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, Identicon, 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



T2M7XK1DQ - includes  
eFlow104NB, LINQ8ACMCB, VR6, LINQ8PDCB,  
wire harnesses and finger duct

*Mercury boards are not included*



### Key Features

- Accommodates the following Mercury controllers:
  - 1 - LP1502 / LP4502 and 3 - 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" Conduit
  - Sixteen (16) double knockouts - 1/2" Conduit and 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/7AH batteries
- CE European Conformity
- Lifetime Warranty\*

*\*Altronix Power Supply/Chargers and Sub-Assemblies only*

## Specifications

### Power Supply/Charger (eFlow104NB):

#### Input

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

#### Outputs

Voltage	24VDC
Current	10A continuous
Auxiliary	Class 2 power-limited @ 1A (unswitched)
Other	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. Prevents deep battery discharge

#### Indicators (LED)

Input	120VAC is present
DC Output	Powered

### Network Access Power Controller (LINQ8ACMCB):

#### Input

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

#### Outputs

PTC protected auto-resettable 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)

### Network Power Distribution Module (LINQ8PDCB):

#### Input

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

#### Outputs

PTC protected auto-resettable 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

#### Status Monitoring

Power Supply 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

#### Reporting:

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

#### Indicators (LED)

Bat Local	Charging current status
FACP	Triggered / Released
Input	Input signal
Out1 - Out8	Output status

### 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

### T2M7XK1DQ Kit:

#### Agency Listings

CE	European Conformity
----	---------------------

#### 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	56.3 lb. (25.5 kg)
Shipping	61.3 lb. (27.8 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

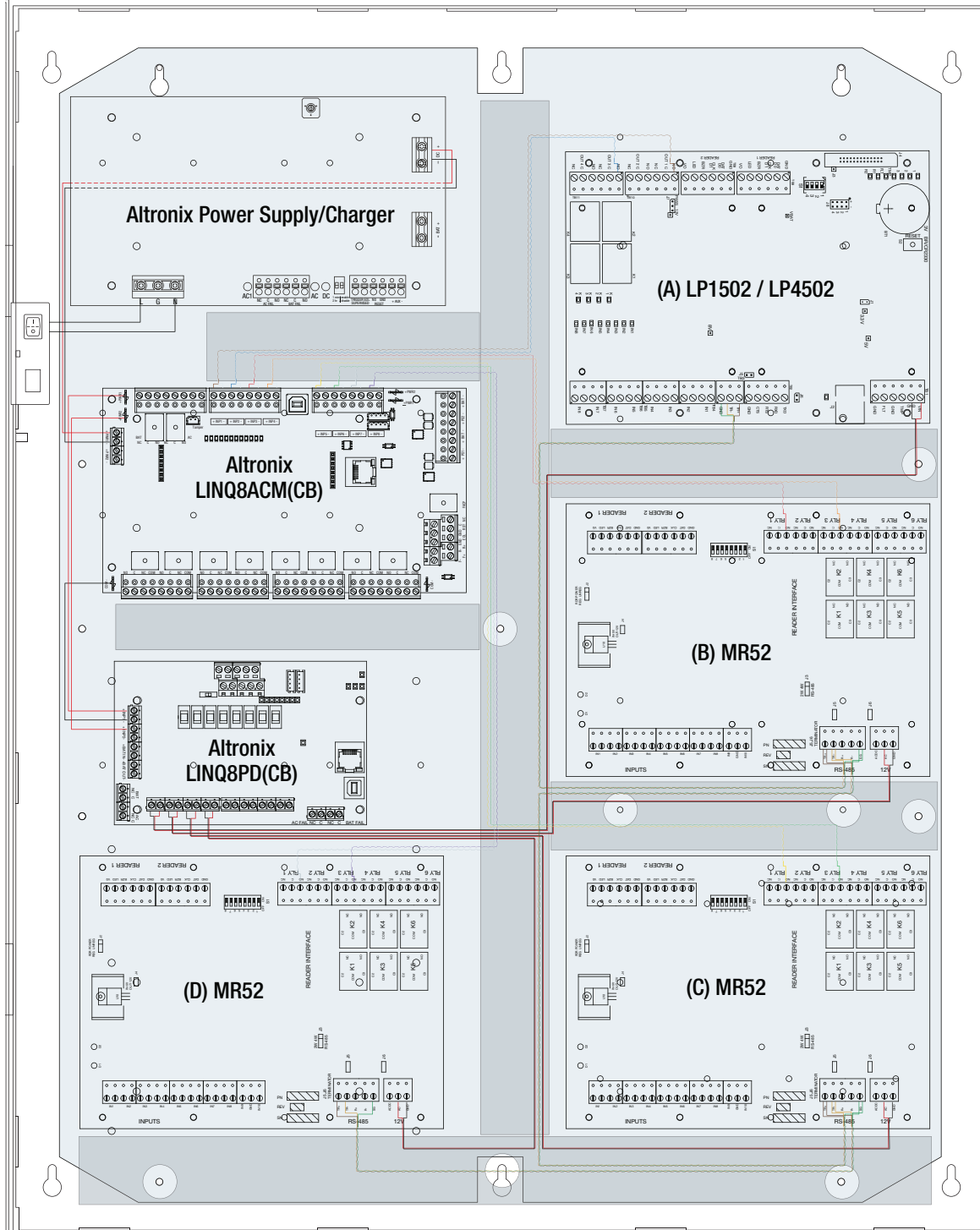
85% +/- 5%
------------

##### BTU/Hr (approx.):

128 BTU/Hr.
-------------

**Access Controller Position Chart for the Following Models:**

Mercury	Pem Mounting
LP1502	(A)
MR52	(B) (C) (D)



**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.

**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)

