

## T2RM7CK1DQ (Pre-wired Kit)

### Rack Mount Access and Power Integration Solution for Mercury



Altronix T2RM7CK1DQ is a 8-door managed 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 T2RM7CK1DQ 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.



T2RM7CK1DQ - includes eFlow104NB, LINQ8ACMCB, VR6, PDS8CB wire harnesses and management

#### \*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



*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
  - Any combination of the above
  - High & low voltage & current monitoring by output
  - Battery back-up by output
  - Monitor power supply(ies) input for voltage & current limits
  - Programmable timer events, user levels
  - Enable or disable alerts by type
  - Programmable alert reporting delay
- Black powder coated steel enclosure
- Convenient knockout configuration:
  - Six (6) 1.25" diameter knockouts located on the back of enclosure
- 16 AWG galvanized steel backplane simplifies board layout and wire management
- 6' IEC320 3-wire power cord
- 2U drawer on extendable rails
- Included Z Bracket facilitates ease of wiring
- Includes cam lock, tamper switch and mounting hardware
- Supervision
  - AC Fail
  - Low Battery and Battery Presence
  - Low power shutdown
- Agency Listings:
  - All Altronix components of this Trove kit are UL Listed sub-assemblies. Please refer to the Sub-Assembly Installation Guides for further information
  - CE European Conformity
- Lifetime Warranty\*

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

## 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

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

### Voltage Regulator (VR6):

#### Input

Voltage	24VDC from eFlow104NB
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#### Output

Voltage	12VDC
Current	6A continuous
Other	Surge suppression

### Indicators (LED)

Input	24VDC is present
Output	Powered

### Dual Input Power Distribution Module (PDS8CB):

#### Input

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

#### 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 PTCs	2.5A

### Indicators (LED)

DC Output	Eight (8) individual output LEDs
Green:	12VDC
Red:	24VDC

### Network Access Power Controller (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)

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

### T2RM7CK1DQ Kit:

#### Agency Listings

CE	European Conformity.
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### Physical and Environmental:

#### Dimensions (H x W x D):

Modular 2U standard EIA 19" rack mount chassis  
Enclosure: 3.25" x 19.0" x 33.1" (82.6mm x 482.6mm x 840.8mm)  
Shipping: 7.75" x 22.5" x 42.0" (196.9mm x 571.5mm x 1,066.8mm)

#### Weights (approx.):

Product:	40.5 lb. (18.37 kg)
Shipping:	45.5 lb. (20.64 kg)

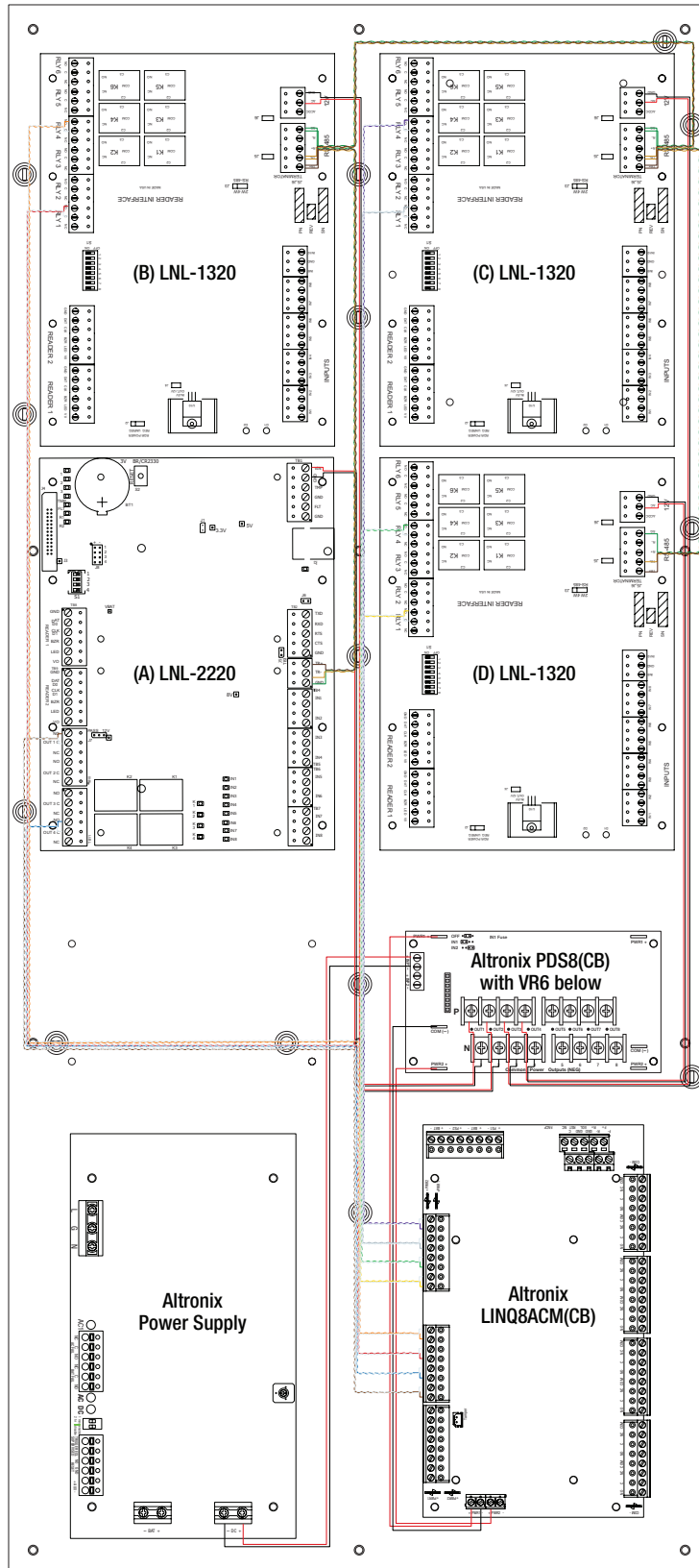
#### Temperature:

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.: 123 BTU/Hr.



**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.



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.

**Dimensions and Drawing**

Dimensions (H x W x D approximate)  
 3.375" x 19.0" x 33.25" (85.8mm x 482.6mm x 844.6mm)

