

# T3MB777K1 (Pre-wired Kit)

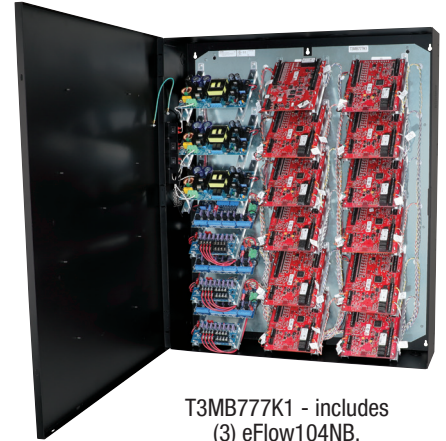
## Access and Power Integration Solution for Mercury



Altronix T3MB777K1 is a 24-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 outputs to support Mercury platform controllers and locking devices. The T3MB777K1 accommodates one (1) Intelligent Dual Reader Controller and eleven (11) 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



T3MB777K1 - includes  
(3) eFlow104NB,  
(3) ACMS8, (3) PDS8,  
wire harnesses and management

*Mercury boards are not included*

## Key Features

- Accommodates the following Mercury controllers:
  - 1 - LP1502 / LP4502 and 11 - MR52
- Convenient knockout configuration:
  - One (1) single knockout 2.415" (2" Conduit)
  - One (1) double knockout 1.948" (1.5" Conduit) / 1.701" (1.25" Conduit)
  - Sixteen (16) double knockouts 1.362" (1" Conduit) / 1.115" (3/4" Conduit)
- Unit includes:
  - Removable backplane with mounting brackets
  - Wire management
  - Custom Wire Harnesses for power distribution and controller connections
- 16 AWG galvanized steel backplane simplifies board layout and wire management
- AC input and DC output LED indicators
- Supervision
  - AC Fail
  - Low Battery and Battery Presence
  - Low power shutdown
- Built-in charger for sealed lead acid or gel type batteries
- Instantaneous transfer to stand-by batteries
- CE European Conformity
- Enclosure accommodates up to four (4) 12VDC/12AH batteries
- Lifetime Warranty

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

**Specifications**

**Three (3) Power Supplies (eFlow104NB):**

**Input**

Voltage	120VAC, 60Hz, 13.5A max.
Input Fuse	6.3A/250V

**Output**

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

**Battery Backup**

Type	Sealed lead acid or gel type
Fuse Rating	15A/32V
Failover	Upon AC loss, instantaneous

**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

**Three (3) Access Power Controllers (ACMS8):**

**Input**

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

**Outputs**

Voltage	24VDC
Eight (8) 24VDC independently controlled fused outputs	
a) Fail-Safe and/or Fail-Secure power outputs	
Form "C" Relays rated 28VAC or VDC @ 2.5A	
b) Auxiliary power outputs (unswitched)	
c) Any combination of the above	

Output Fuses	3.5A/32V
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**Indicators (LED)**

Red LEDs	Outputs are triggered (relays energized)
Green LED	FACP disconnect is triggered

**Three (3) Power Distribution Modules (PDS8):**

**Input**

Voltage	24VDC from eFlow104NB
Input Fuses	10A/32V

**Outputs**

Voltage	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	

**Outputs Ratings**

Fuses	3A/32V
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**Indicators (LED)**

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

**T3MB777K1 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:  
 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.)**

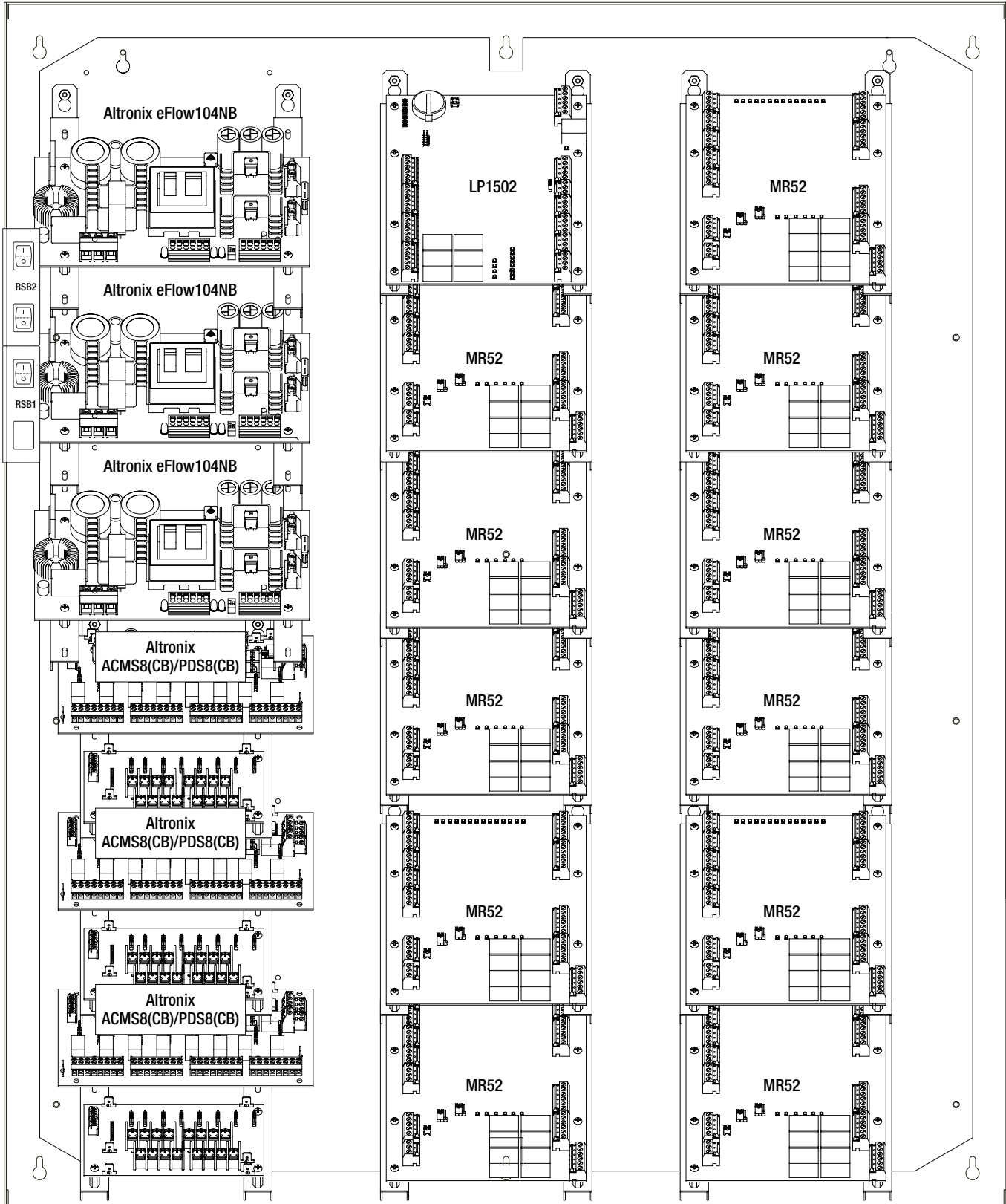
Product	85.6 lb. (42.27 kg)
Shipping	106.4 lb. (48.26 kg)

**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.):** 433 BTU/Hr.



**Accessories** (order separately)



LINQ2

**LINQ2 - Network Supervision**

Altronix LINQ2 Network Communication Module provides remote supervision, control and monitoring over LAN/WAN

- Remotely reports accurate power diagnostics
- Controls power and resets devices
- Reports system diagnostics via Email



WM5

**WM5, WM25, WM100 - Magnetic Cable Tie Mounts**

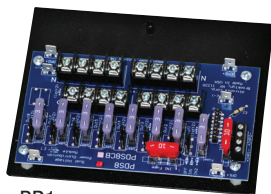
Altronix WM5, WM25, and WM100 are packs of 5, 25 or 100 magnetic cable tie mounts respectively. They accommodate standard zip ties or velcro straps. These are ideal for wire management in our Trove series.



Mounting Magnet

**MM4, MM8, MM12, MM24 - Magnetic Mounting Solution**

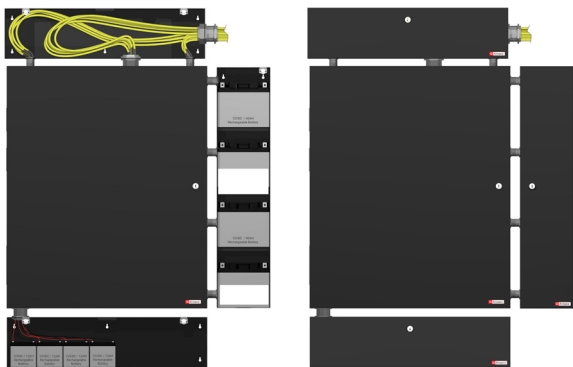
Altronix mounting magnets accommodate screws and nylon standoffs to allow for mounting various boards/ accessories in any metal enclosure or backplane.



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.



**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.

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

**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)

