

## T3MB777K1D (Pre-wired Kit)

Access and Power Integration Solution for Mercury



Altronix T3MB777K1D 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 T3MB777K1D 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



T3MB777K1D - includes  
(3) eFlow104NB,  
(3) ACMS8CB, (3) PDS8CB,  
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 (ACMS8CB):**

**Input**

Voltage 24VDC from eFlow104NB  
 Input PTCs 9A

**Outputs**

Voltage 24VDC  
 Eight (8) 24VDC independently controlled PTC 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 PTCs 2.5A

**Indicators (LED)**

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

**Three (3) Power Distribution Modules (PDS8CB):**

**Input**

Voltage 24VDC from eFlow104NB  
 Input PTCs 9A

**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**

PTCs 2.5A

**Indicators (LED)**

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

**T3MB777K1D 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.)**

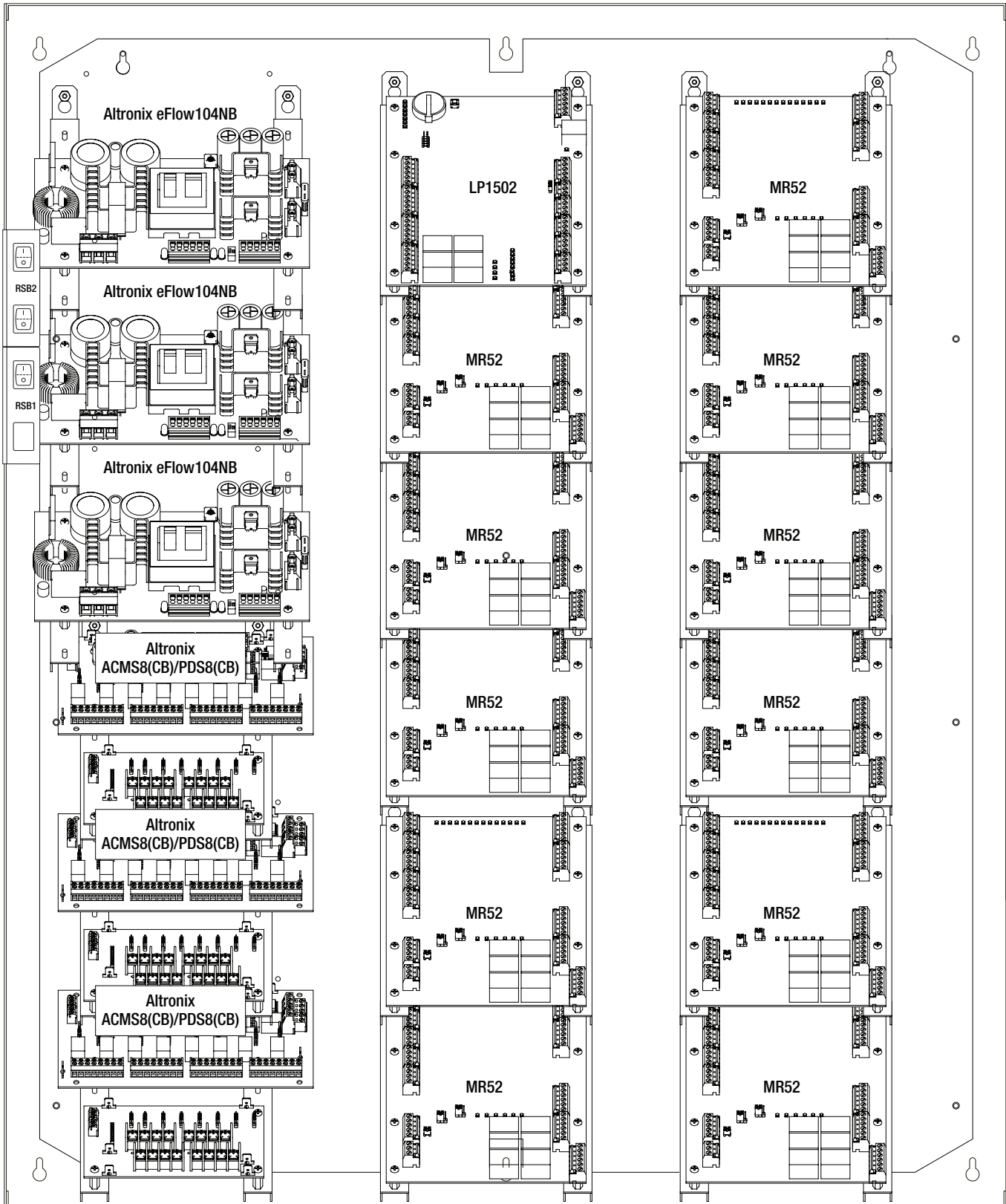
Product 85.6 lb. (42.27 kg)  
 Shipping 106.4 lb. (48.26 kg)

**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**

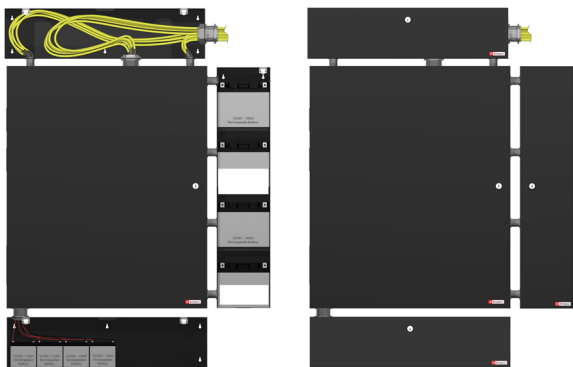
Altronix mounting magnets accommodate screws and nylon standoffs to allow for mounting various boards/ accessories in any metal enclosure or backplane.



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)

