

## T3M7724LCK1DQ (Pre-wired Kit)

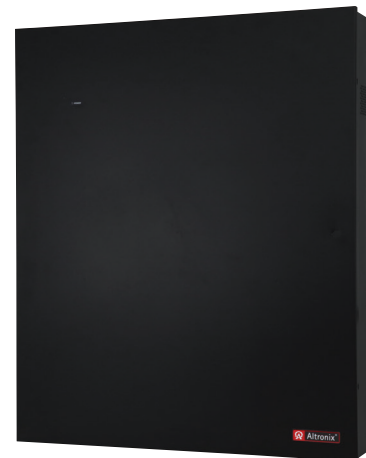
Access and Power Integration Solution for Mercury



Altronix T3M7724LCK1DQ 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 dual voltage outputs to support Mercury platform controllers and locking devices. The T3M7724LCK1DQ 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



T3M7724LCK1DQ - includes (2) AL1024ULXB2, (2) VR6, (3) LINQ8ACMCB, (2) PDS16CB, 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" Conduit
  - Two (2) double knockout - 1.25" Conduit and 1.5" Conduit
  - Thirteen (13) double knockouts - 3/4" Conduit and 1" Conduit
- Unit includes:
  - Removable backplane
  - Wire management
  - Custom Wire Harnesses for power distribution and controller connections
- Supervision
  - AC Fail
  - Low Battery and Battery Presence
- 16 AWG 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

### Two (2) Power Supplies (AL1024ULXB2):

#### Input

|            |                        |
|------------|------------------------|
| Voltage    | 115VAC 60Hz, 4.2A max. |
| Input Fuse | 5A/250V                |

#### Outputs

|         |                                                |
|---------|------------------------------------------------|
| Voltage | 24VDC                                          |
| Current | 10A @ 24VDC continuous max.                    |
| Other   | Overvoltage protection. Filtered and regulated |

#### Battery Charging

|                               |                                                                            |
|-------------------------------|----------------------------------------------------------------------------|
| Capacity                      | 12VDC/12AH (4 within enclosure)<br>40AH/65AH (requires separate enclosure) |
| Type                          | Sealed lead acid or gel type                                               |
| Fallover                      | Upon AC loss, instantaneous                                                |
| Batteries are sold separately |                                                                            |

#### Supervision

|            |                   |
|------------|-------------------|
| AC Failure | Form "C" contacts |
| Battery    | Form "C" contacts |

#### Indicators (LED)

|           |                             |
|-----------|-----------------------------|
| Input     | 115VAC is present           |
| DC Output | Powered                     |
| Battery   | Discharged or not connected |

### Three (3) Network Access Power Controllers (LINQ8ACMCB):

#### Input

|             |                                           |
|-------------|-------------------------------------------|
| Voltage:    | 24VDC from AL1024ULXB2 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)

|                                  |                                        |
|----------------------------------|----------------------------------------|
| 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)  |

### Two (2) Voltage Regulators (VR6):

#### Input

|         |                        |
|---------|------------------------|
| Voltage | 24VDC from AL1024ULXB2 |
|---------|------------------------|

#### Output

|         |                   |
|---------|-------------------|
| Voltage | 12VDC             |
| Current | 6A continuous     |
| Other   | Surge suppression |

#### Indicators (LED)

|        |                  |
|--------|------------------|
| Input  | 24VDC is present |
| Output | Powered          |

### Two (2) Dual Input Power Distribution Modules (PDS16CB):

#### Input

|             |                                           |
|-------------|-------------------------------------------|
| Voltage:    | 24VDC from AL1024ULXB2 and 12VDC from VR6 |
| Input PTCs: | 9A                                        |

#### Outputs

|                                                                                         |                    |
|-----------------------------------------------------------------------------------------|--------------------|
| Voltage                                                                                 | 12VDC and/or 24VDC |
| Any of the sixteen (16) 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 | Sixteen (16) individual output LEDs |
| Green:    | 12VDC                               |
| Red:      | 24VDC                               |

### T3M7724LCK1DQ Kit:

#### Agency Listings

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

#### 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:  | 95.6 lb. (43.36 kg)  |
| Shipping: | 108.8 lb. (49.35 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

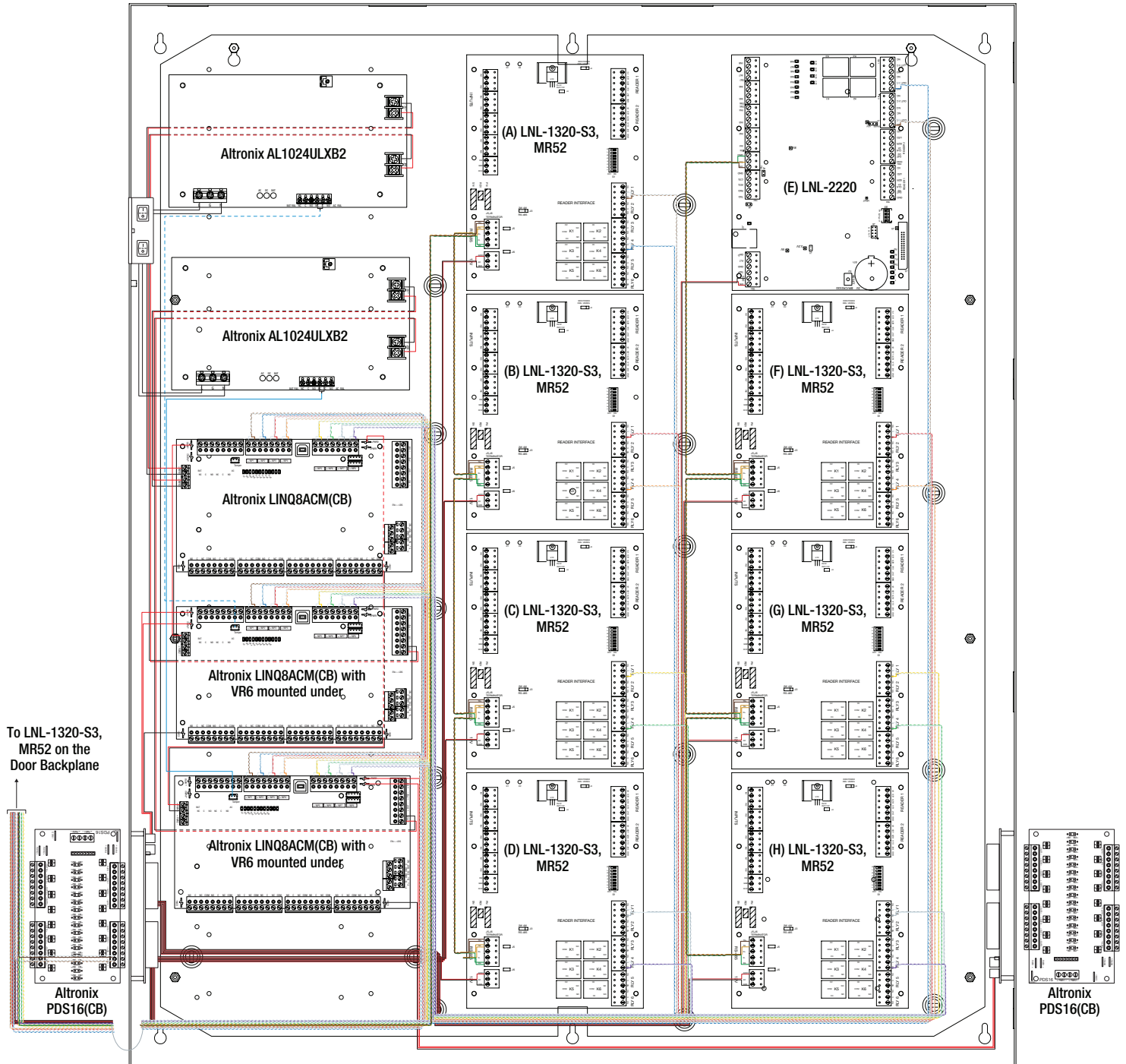
|            |
|------------|
| 85% +/- 5% |
|------------|

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

|             |
|-------------|
| 289 BTU/Hr. |
|-------------|

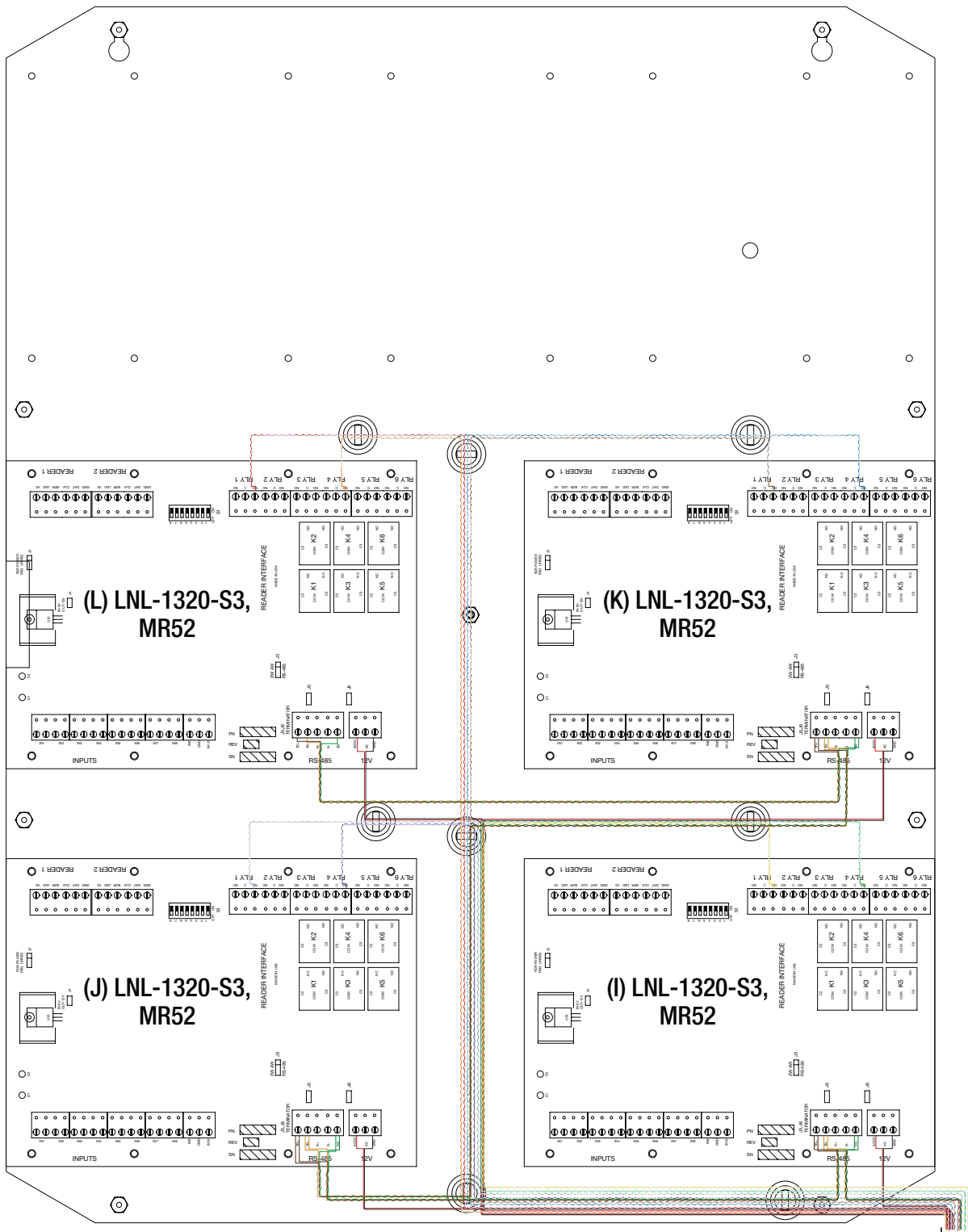
# T3M7724LCK1DQ (Pre-wired Kit)

Access and Power Integration Solution for Mercury



# T3M7724LCK1DQ (Pre-wired Kit)

Access and Power Integration Solution for Mercury



From Sub-Assemblies on TM3

**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**

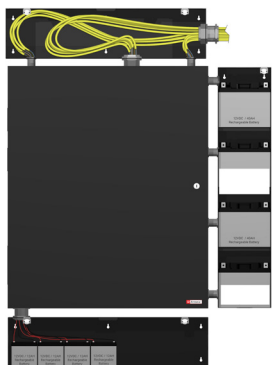
Altronix mounting magnets accommodate screws and nylon standoffs to allow for mounting various boards/ accessories in any metal enclosure or backplane.



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.



**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)

