

# T3DCR77LXK1 (Pre-wired Kit)

Access and Power Integration Solution for Mercury



Altronix T3DCR77LXK1 is a 16-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 to support Mercury platform controllers and locking devices. The T3DCR77LXK1 accommodates up to one (1) Intelligent Dual Reader Controller and seven (7) 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, LockState, Maxxess, Midpoint Security, NLSS, Open Options, Panasonic i-PRO MonitorCast, Quintron, RS2, S2 Security, Schneider Electric, Vanderbilt.



T3DCR77LXK1 - includes (2) AL1024ULXB2, (1) Circ1ATS, (2) ACMS12, (1) ACMS8, (1) PDS8, wire harnesses and finger duct

*Mercury boards are not included*

## Key Features

- Accommodates the following Mercury controllers:
  - 1 - LP1502/LP4502 and 7 - 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
  - 3" high finger duct for wire management
  - Custom Wire Harnesses for power distribution and controller connections
- Supervision
  - AC Fail
  - Low Battery and Battery Presence
- 16 gauge 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, 8.4A 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) 40AH/65AH (requires separate enclosure)
Type	Sealed lead acid or gel type
Failover	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

### Circ1ATS - AC Power Transfer Switch

#### Input

Two (2) Independent AC Inputs:  
120 or 240VAC up to 10A each

#### Output

One (1) AC output: 120 or 240VAC up to 10A

#### Features

Removeable AC Terminal Blocks  
Brownout Threshold Adjustment  
Restore Delay Adjustment  
DIN Rail mountable (DNP1)

#### Supervision

AC Failure (Primary and Secondary Inputs)  
Form "A" Normally Closed contacts

#### Indicators (LED)

LED Indicators of Primary and Secondary Power

### Two (2) Dual Input Access Power Controllers (ACMS12):

#### Input

Voltage	24VDC from AL1024ULXB2
Input Fuses	15A/32V

#### Outputs

Voltage 24VDC individually selectable  
 Twelve (12) selectable 24VDC independently controlled outputs or twelve (12) independently controlled Form "C" relay outputs:

- Fail-Safe and/or Fail-Secure power outputs
- Form "C" Relays. 28VAC or VDC @ 2.5A Rated
- Auxiliary power outputs (unswitched)
- Any combination of the above

Any of the twelve (12) fuse protected power outputs are selectable to follow power Input 1 or Input 2

Individual outputs may be set to OFF position for servicing

Output Fuses 3A/32V

#### Indicators (LED)

Red LEDs Outputs are triggered (relays energized)  
 Blue LED FACP disconnect is triggered  
 Individual voltage LEDs:  
 Green: 12VDC  
 Red: 24VDC

### Dual Input Access Power Controller (ACMS8):

#### Input

Voltage	24VDC from AL1024ULXB2
Input Fuses	15A/32V

#### Outputs

Voltage 24VDC individually selectable  
 Eight (8) selectable 24VDC independently controlled outputs or eight (8) independently controlled Form "C" relay outputs:

- Fail-Safe and/or Fail-Secure power outputs
- Form "C" Relays. 28VAC or VDC @ 2.5A Rated
- Auxiliary power outputs (unswitched)
- Any combination of the above

Any of the eight (8) fuse protected power outputs are selectable to follow power Input 1 or Input 2

Individual outputs may be set to OFF position for servicing

Output Fuses 3A/32V

#### Indicators (LED)

Red LEDs Outputs are triggered (relays energized)  
 Blue LED FACP disconnect is triggered  
 Individual voltage LEDs:  
 Green: 12VDC  
 Red: 24VDC

### One (1) Dual Input Power Distribution Module (PDS8):

#### Input

Voltage	24VDC from AL1024ULXB2
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  
 Output Fuses 3A/32V

#### Indicators (LED)

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

### T3DCR77LXK1 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)

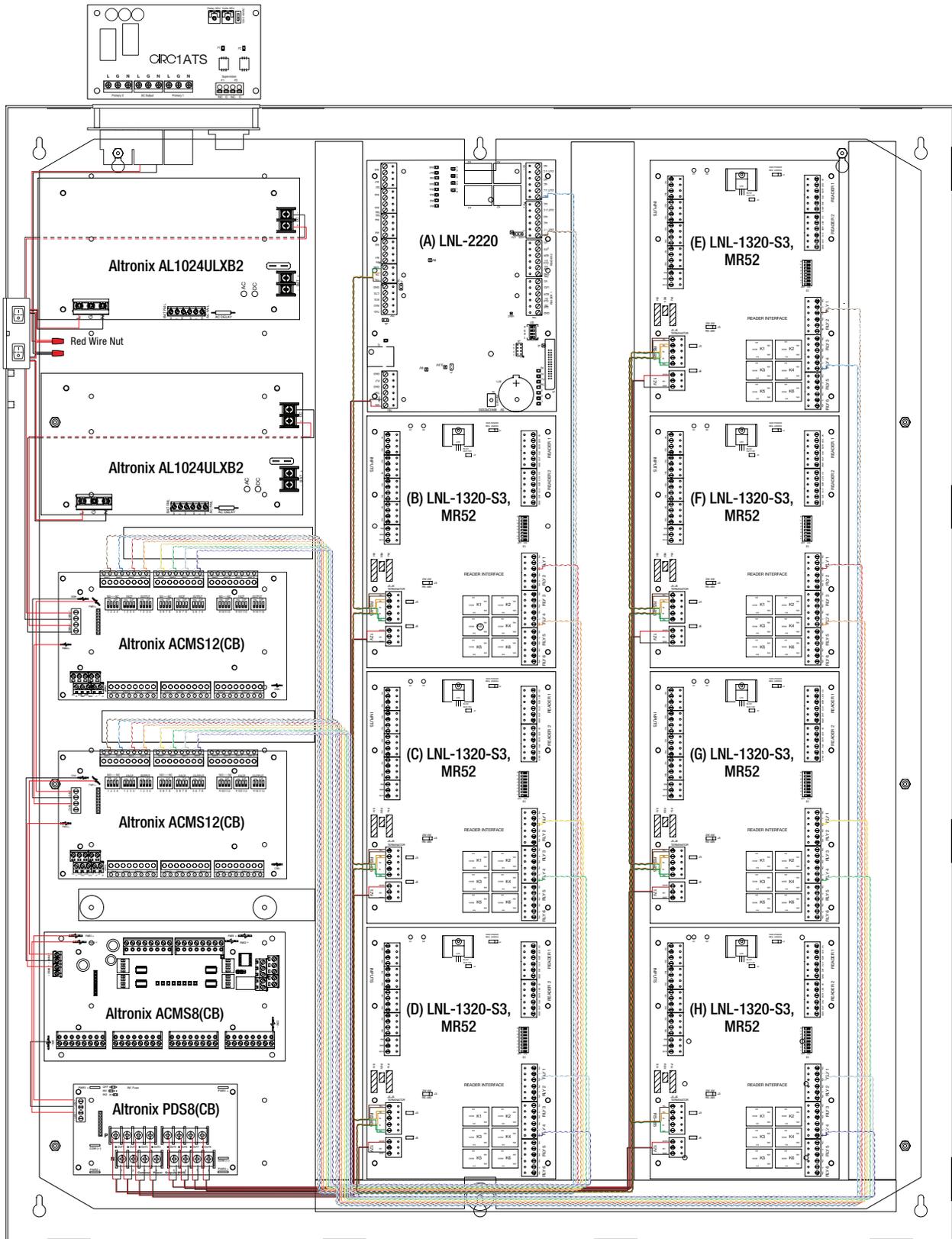
##### Weight (approx.)

Product: 85.6 lb. (38.83 kg)  
 Shipping: 98.8 lb. (44.82 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.



**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**

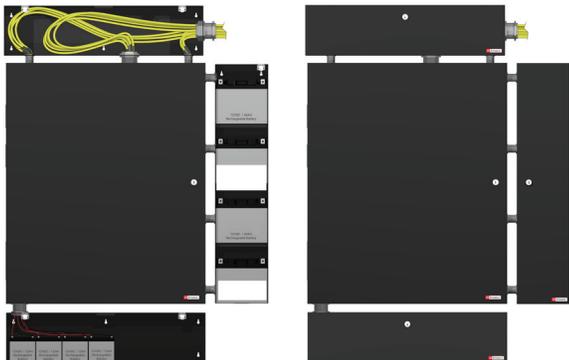
Altronix mounting magnets accommodate screws and nylon standoffs to allow for mounting various boards/ accessories in any metal enclosure or backplane.



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.



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

**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.

**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)

