Altronix®

T3M77XK1D

Access and Power Integration Solution for LenelS2/Mercury

TR□VE™

Altronix T3M77XK1D 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 LenelS2/Mercury hardware. This unit provides ample power and dual voltage outputs to support LenelS2/Mercury platform controllers and locking devices. The T3M77XK1D accommodates 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, Identicard, IMRON, Johnson Controls, Kastle, Keri Systems, LockState, Maxxess, Midpoint Security, NLSS, Open Options, Panasonic i-PRO MonitorCast, Quintron, RS2, S2 Security, Schneider Electric, Vanderbilt
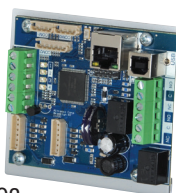
T3M77XK1D

LenelS2/Mercury boards are not included

Key Features

- Accommodates the following LenelS2/Mercury controllers:
  1-EP(LP)1502 and 7-MR52/
  1-LNL-(X)2220 and 7-LNL-1320(-S3)

- 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
  - 3" high finger duct for 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*/Made in the U.S.A.

*Altronix Power Supply/Chargers and Sub-Assemblies only

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.

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TROVE™

Specifications

Two (2) Power Supplies (eFlow104NB):
Input
Voltage	120VAC, 60Hz, 9A 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/32VDC
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

Two (2) Voltage Regulator (VR6):
Input
Voltage	24VDC from eFlow104NB

Output
Voltage	12VDC
Current	6A continuous
Other	Surge suppression

Indicators (LED)
Input	24VDC is present
Output	Powered

Two (2) Access Power Controllers (ACMS8CB):
Input
Voltage	24VDC from eFlow104NB
Input PTC	9A

Two (2) Access Power Controllers (ACMS8CB) (cont'd)**:**
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

Two (2) Dual Input Power Distribution Module (PDS8CB):
Input
Voltage	12VDC from VR6 and 24VDC from eFlow104NB
Input PTC	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.

Outputs Ratings
PTCs	2.5A

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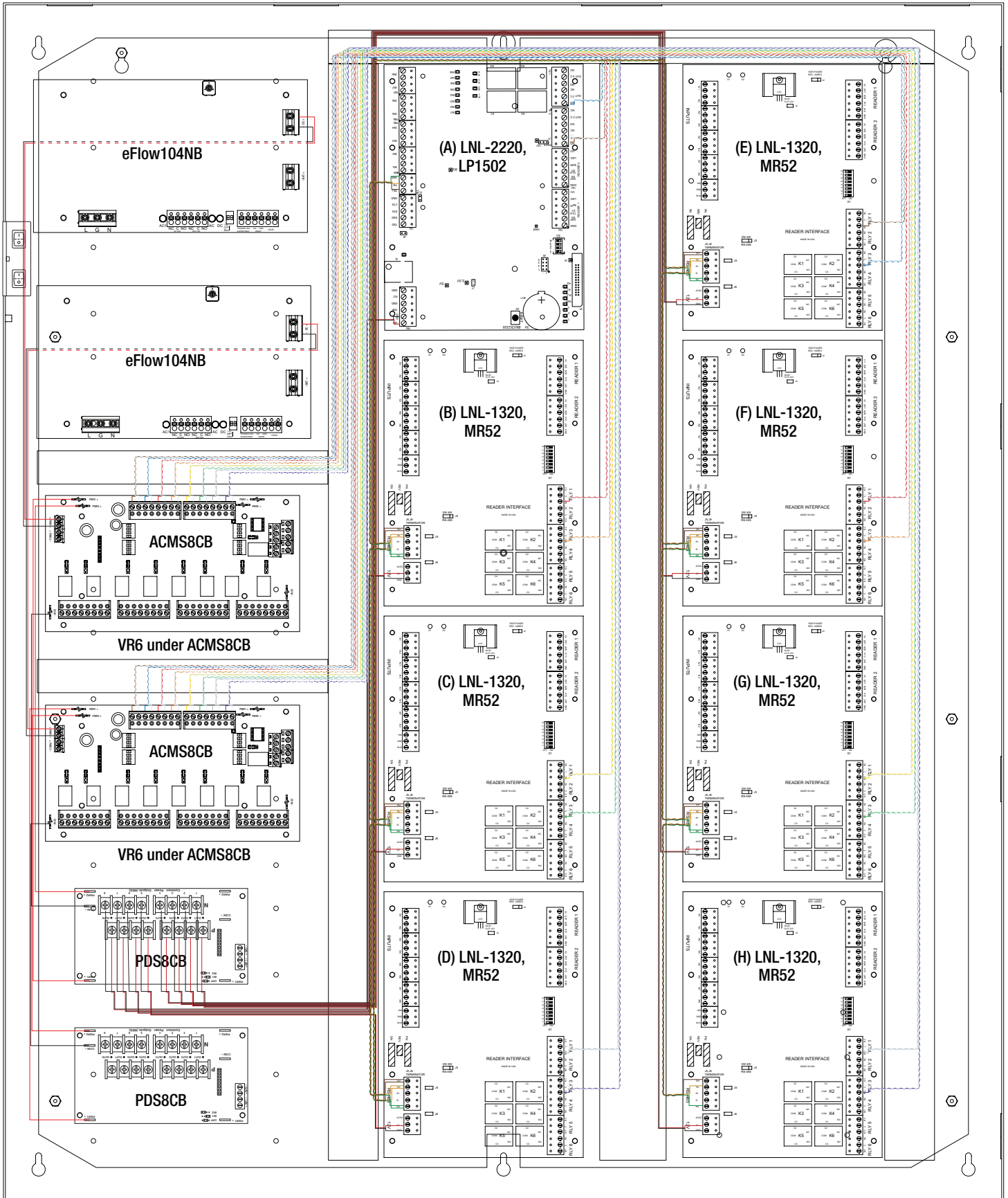|		
DC Output	Eight (8) individual output LEDs	
Green:	12VDC	
Red:	24VDC	

T3M77XK1D 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)
   36.12" x 30.125" x 7.06" (917.5mm x 768.1mm x 179.3mm)

Weight (approx.)
Product	85.6 lb. (38.83 kg)
Shipping	98.8 lb. (44.82 kg)

Temperature
Operating	0ºC to 49ºC (32ºF to 120ºF)
Storage	-20ºC to 70ºC (-4ºF to 158ºF)

Relative Humidity	85% +/-5%
BTU/Hr. (approx.):	289 BTU/Hr

eFlow104NB

eFlow104NB

ACMS8CB

VR6 under ACMS8CB

ACMS8CB

VR6 under ACMS8CB

PDS8CB

PDS8CB

(A) LNL-2220, LP1502

(B) LNL-1320, MR52

(C) LNL-1320, MR52

(D) LNL-1320, MR52

(E) LNL-1320, MR52

(F) LNL-1320, MR52

(G) LNL-1320, MR52

(H) LNL-1320, MR52

2.00" (50.8mm) 7.12" (222.3mm) 9.5" (241.3mm) 9.5" (241.3mm)

1.25" (31.8mm) 1.78" (45.2mm) 1.55" (39.4mm)

2.00" (50.8mm)

1.25" (31.8mm)

1.07" (27.2mm)

30.12" (768.1mm)

14.01" (355.9mm) 14.01" (355.9mm)

2" (50.8mm)

1.10" (27.9mm)

10.75" (273.1mm)

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10.62" (269.8mm)

33.63" (854.2mm)

10.75" (273.1mm)

10.75" (273.1mm)

10.62" (269.8mm)

36.12" (917.5mm)

10.75" (273.1mm)

1.25" (31.8mm)

7.06" (179.3mm)

1.25" (31.8mm)

2" (50.8mm) 8.75" (222.3mm) 8.62" (219mm) 8.75" (222.3mm)