Altronix®

Rev. 11172025

T3M7724XK1 (Pre-wired Kit)

Access and Power Integration Solution for Mercury

TROVE PLUS

Altronix T3M7724XK1 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 T3M7724XK1 accommodates up to 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, 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.

Mercury

T3M7724XK1 - includes
(2) EFlow104NB, (2) ACMS12, (2) VR6,
(2) PDS16, wire harnesses and finger duct

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
  - 3” high finger duct for wire management
  - Custom Wire Harnesses for power distribution and controller connections
- Supervision
  - AC Fail
  - Low Battery and Battery Presence
  - Low power shutdown
- 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*

Altronix Corporation | 140 58th St | Brooklyn, NY 11220 USA
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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 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

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) Dual Input Access Power Controllers (ACMS12):

Input
- Voltage: 24VDC from eFlow104NB and 12VDC from VR6
- Input Fuses: 15A/32V

Outputs
- Voltage: 12 or 24VDC individually selectable

Twelve (12) selectable 12VDC - 24VDC independently controlled outputs or twelve (12) indepently controlled Form "C" relay outputs:
- a) Fail-Safe and/or Fail-Secure power outputs
- b) Form "C" Relays. 28VAC or VDC @ 2.5A Rated
- c) Auxiliary power outputs (unswitched)
- d) 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

Two (2) Voltage Regulators (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) Dual Input Power Distribution Modules (PDS16):

Input
- Voltage: 24VDC from eFlow104NB and 12VDC from VR6
- Input Fuses: 15A/32V

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 Fuses: 3A/32V

Indicators (LED)
- DC Output: Sixteen (16) individual output LEDs
  - Green: 12VDC
  - Red: 24VDC

T3M7724XK1 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: 0ºC to 49ºC (32ºF to 120ºF)
  - Storage: – 20ºC to 70ºC (– 4ºF to 158ºF)
- Relative Humidity: 85% +/– 5%
- BTU/Hr. (approx.): 289 BTU/Hr.

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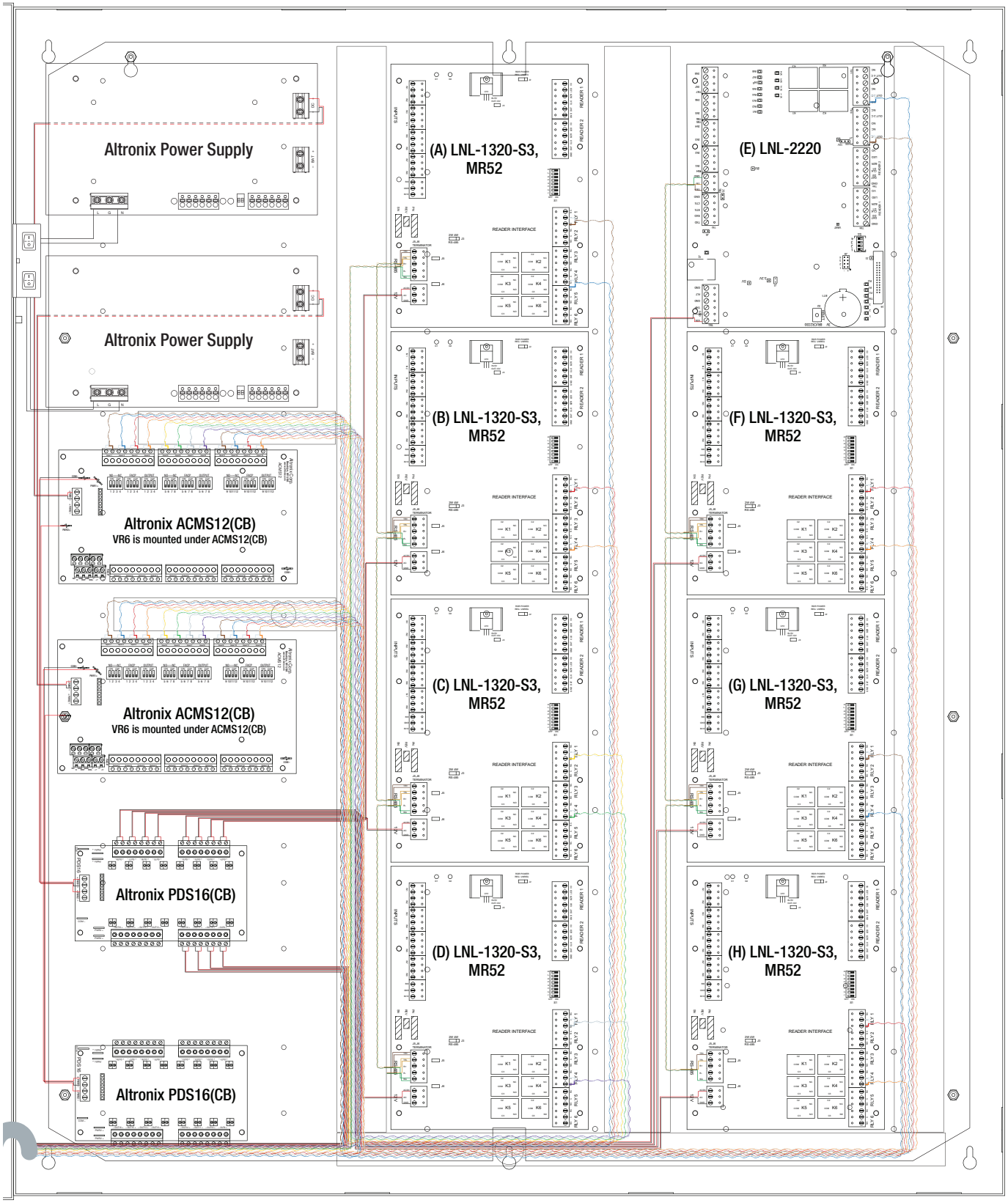

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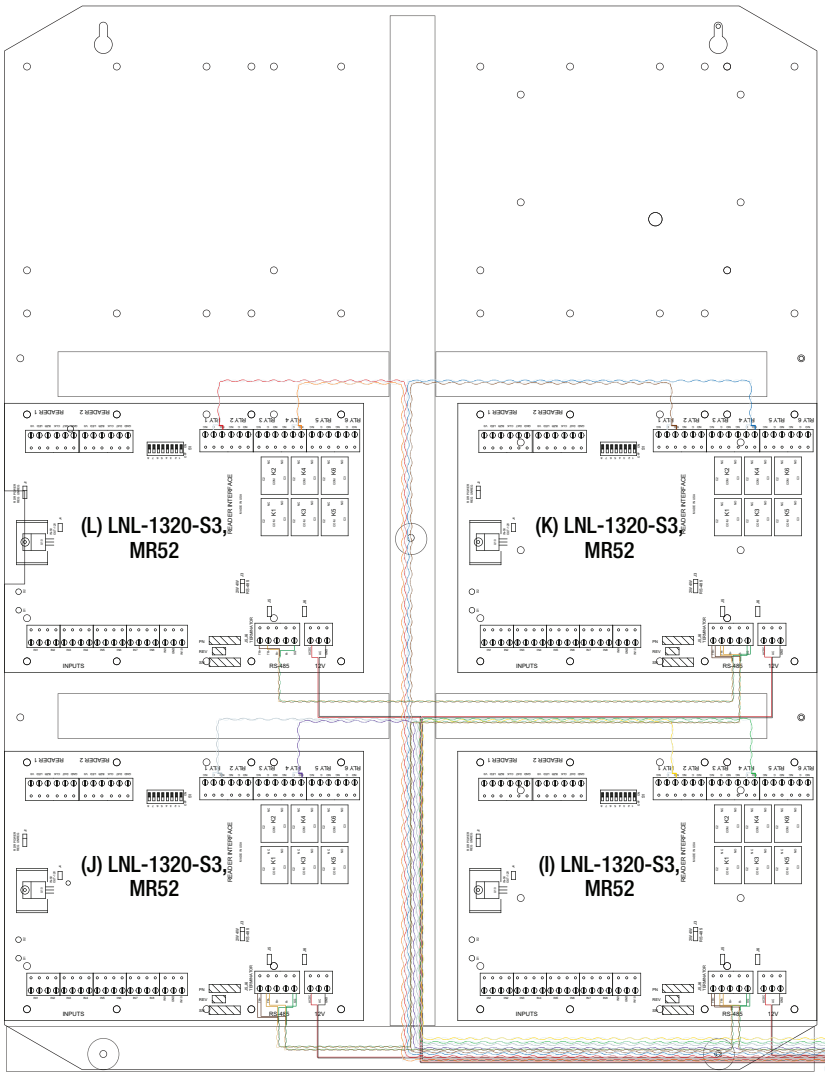
TMV2 - Door Backplane accommodates four Mercury boards



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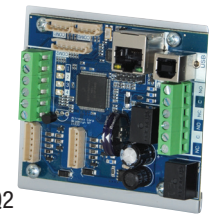
Accessories (order separately)



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

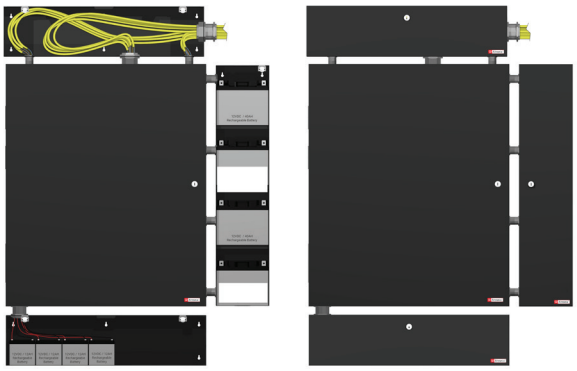
MM4, MM8, MM12, MM24 - Magnetic Mounting Solution

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.



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.

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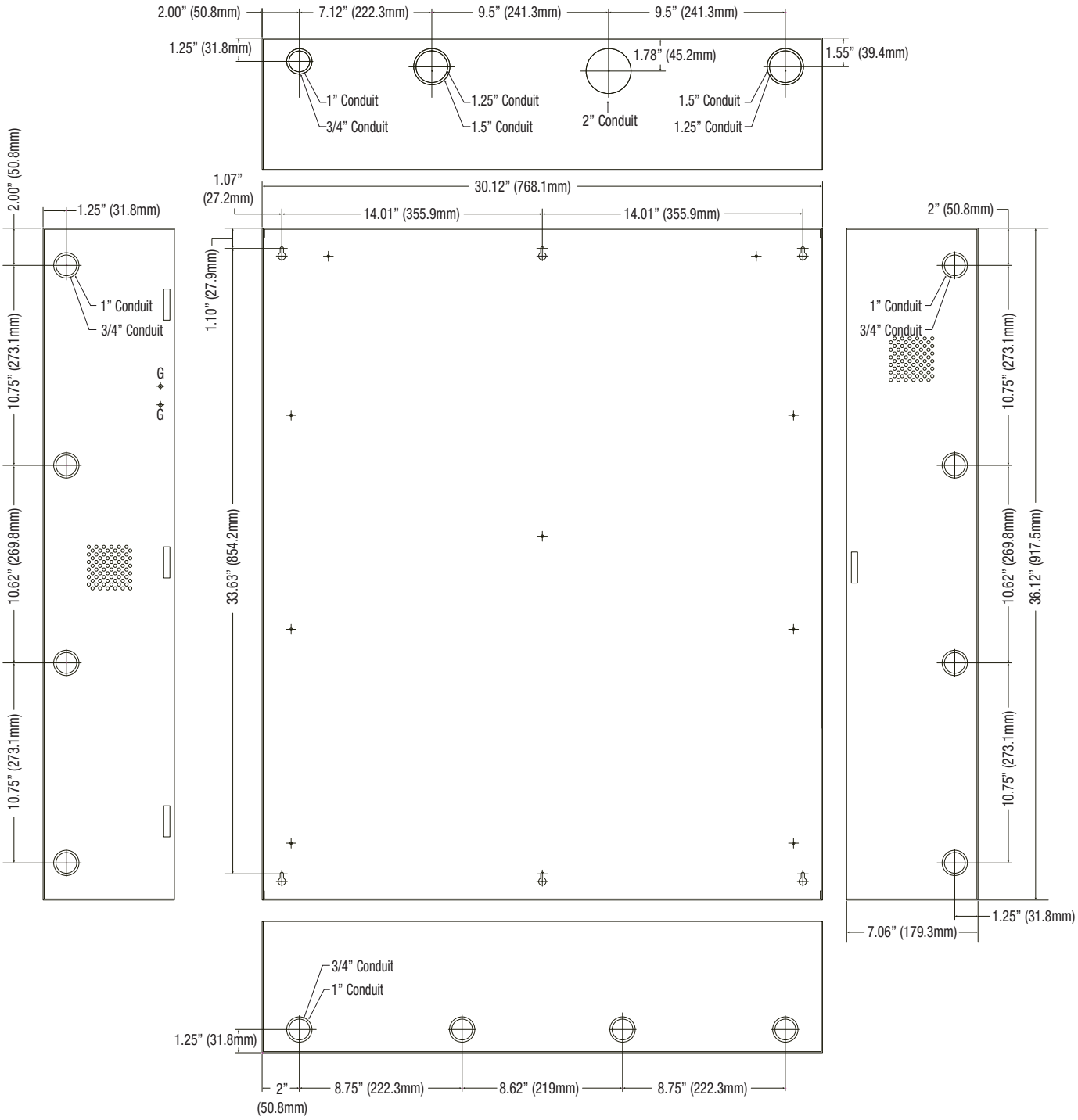
Dimensions and Drawing

Dimensions (H x W x D approximate)

36.12” x 30.125” x 7.06” (917.5mm x 768.1mm x 179.3mm)



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