

POA80

Power Over A-Net Power Supply



PRODUCT HIGHLIGHTS

- Allows power for the F6 to be sent over the Cat-5/Cat-6 cable
- One A-Net[®] In, one A-Net Out
- Standard IEC power connection
- Supports redundant power connections

Aviom's AllFrame Multi-Modular I/O System[™] offers unique flexibility in installation. In addition to supporting multiple I/O complements and physical form factors, AllFrame devices can be powered in a number of ways. The F6 Modular I/O Frame features three power inlets: a two-pin Euroblock and a four-pin XLR for use with external DC power supplies, as well as an RJ45 A-Net jack which can accept power injected on the Cat-5e or Cat-6 cable.

The POA80 provides power over A-Net (PoA) for the F6 Modular I/O Frame. Two Pro64[®] network ports on EtherCon[®] connectors integrate the POA80 into the Pro64 network; one of these ports adds DC power to the network cable connected to the F6. The POA80 requires a standard IEC power connection and may be mounted on a standard rack tray (front-, rear-, or side-facing connectors), or attached to a wall or other flat surface. The POA80 may be placed at

any point along the network cable; total cable length between the remotely powered F6 and the next Pro64 device may not exceed 400 feet (120 meters).

The POA80 includes unique circuitry to protect connected devices from the power irregularities that can occur when network cables carrying DC power are connected or disconnected.

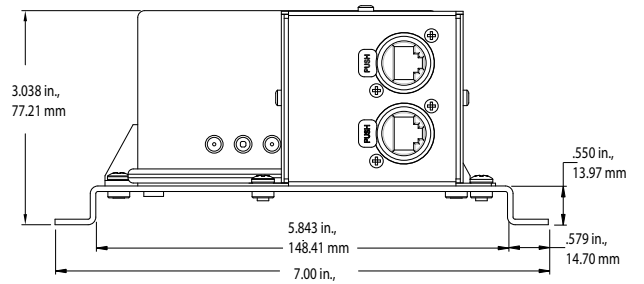
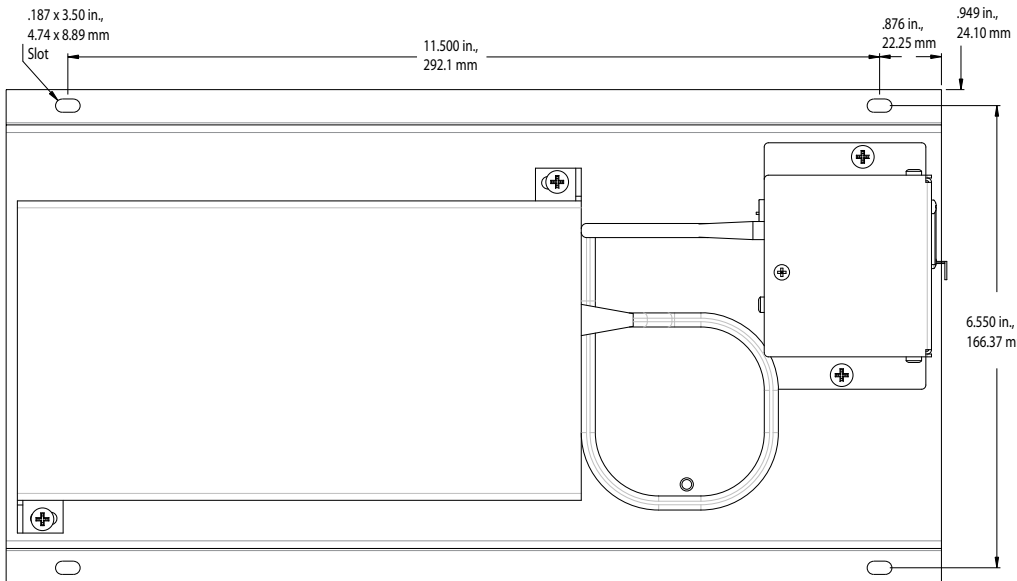
The POA80 may be used to power an F6 even when the F6 fiber ports are used for data transmission. Note that only the A-Net B port can accept PoA and no other A-Net ports should be connected to the powered port of the POA80.

The F6 Modular I/O Frame can also be powered simultaneously via its 4-pin XLR and/or Euroblock terminal block power inlets to create a redundant power sub-system.

TECHNICAL SPECIFICATIONS

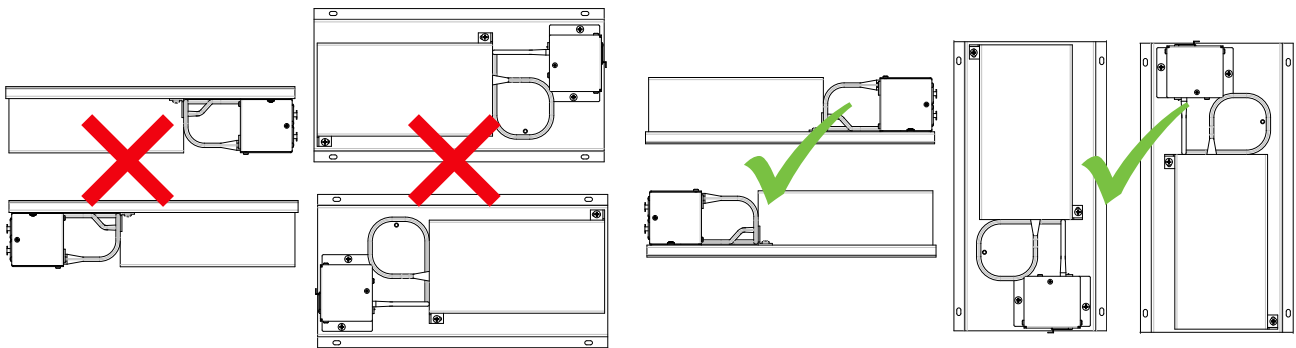
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|--------------------------------------|--|
| LED Indicators | Connect - green - DC Power 'OK' Fault - red - Fault detected On - green - Power on/off |
| Mounting | Four mounting holes on the tray allow the unit to be attached to a rack shelf or other flat surface (some restrictions apply). |
| A-Net Connections | One Pro64 network A-Net In One Pro64 network A-Net plus DC power Out EtherCon RJ45 connectors Connects to A-Net Port B only on F6 |
| Power Over A-Net Cable Length | 400 feet (120 meters) maximum |
| AC Input Voltage Range | 100 to 240VAC, 47-63Hz |

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|------------------------------|---|
| AC Power Inlet | Removable IEC electrical connector |
| Total Output Power | 80W |
| DC Output Voltage | +56V |
| Operating Temperature | -40 to +55°C |
| Dimensions | 13.25 x 7.0 x 3.04 in. 336.55 x 177.8 x 77.21 mm |
| Shipping Dimensions | 16 x 10.5 x 7 in. 406 x 266.7 x 177.8 mm |
| Weight | 9 pounds 4.1 kg |



MOUNTING NOTICE

The POA80 can be mounted on both horizontal and vertical surfaces. However, do not mount the POA80 horizontally on a vertical surface such as a wall or interior of a rack, and do not mount the POA80 upside down.



ARCHITECTURAL SPECIFICATION

The Aviom POA80 shall provide DC power and A-Net digital audio data over a Cat-5e/Cat-6 cable to an AllFrame I/O device.

Front-panel features shall include LED indicators for Power On, Connect, and Error. It shall employ two EtherCon® RJ45 connectors for the A-Net digital signal connections.

The unit shall be AC powered (100 to 240VAC, 47-63Hz) and have an IEC power inlet with detachable cable. It shall be UL listed.

Its dimensions shall be 7.0 inches wide, 13.25 inches long, and 3.04 inches high. Its net weight shall be 9 pounds, and its front panel shall be finished in black. The unit shall be Aviom Incorporated model POA80.

All Aviom products are designed and manufactured in the USA.