Aviom's D-16c A-Net® Card is an output expansion card for DiGiCo® D1 and D5 series digital consoles, providing seamless direct digital connectivity to Aviom's Pro16™ monitor mixing, digital snake, and distributed audio products. The D-16c is compatible with all Aviom Pro16 products, including the A-16II and A-16R Personal Mixers, the A-16D and A-16D Pro A-Net Distributors, and the AN-16/o Output Module.

PRODUCT HIGHLIGHTS

- *Add A-Net Pro16 outputs to any DiGiCo digital mixing console that uses the DiGiRack or MiNi DiGiRack*
- *48kHz, 24-bit uncompressed digital data*
- *Stereo Link switch per channel pair for stereo mixing with Pro16 Personal Mixers*
- *Unlimited splits and lossless digital copies*
- *Cat-5e cables can be up to 500 feet (150 meters) long*

Each D-16c A-Net Card outputs up to 16 channels of 24-bit, 48kHz digital audio over a single Cat-5e cable, using Aviom's ultra-fast A-Net Pro16™ digital audio transmission protocol. Additionally, up to 64 channels can be combined onto a single cable using Aviom's AN-16SB System Bridge. A-Net features plug-and-play operation, long cable runs (500ft/150m between devices), sub-millisecond latency, and unlimited lossless digital splits—perfect for sends to recording devices, PA system drive racks, broadcast trucks, etc.

The D-16c card fits into a pair of adjacent output slots in the DiGiCo console's DiGiRack®, the audio I/O processor rack that supplies audio content to the D1 and D5 series control surfaces. Audio channels routed to the D-16c are configured in the digital domain from the DiGiCo console's user interface. Stereo linking of channel pairs is provided for Personal Mixer stereo operation by means of a set of eight internal DIP switches.

Multiple D-16c cards can be used simultaneously in a DiGiCo console, extending the creative possibilities for both monitoring and signal distribution. Expansion is limited only by the number of available card slots.

D-16c A-NET CARD SPECIFICATIONS

A-Net Pro16 Output	16 channels of A-Net digital data
Interface Format	DiGiCo Expansion Card; requires two adjacent output slots
Maximum Expansion	Limited only by the number of available expansion slots in the DiGiRack
Compatible Systems	DiGiRack and MiNi DiGiRack
Sample Rate	44.1kHz to 48kHz, +/-10%
Digital Conversion	24-bit
Digital Connections	A-Net Out: 1; EtherCon® RJ45 connector
DIP Switch	Switch 1-8: Stereo Link on/off
Latency	0.880 msec (measured from analog input to analog output)

A-Net Pro16	A-Net allows 16 channels of audio to be transmitted over one Cat-5e cable
	uses unshielded Cat-5e UTP (or better) cable; maximum 500ft (150m) between devices
Power Supply	None required; uses DiGiCo device as source of power
Dimensions	2.5" (63.5 mm) wide x 12.5" (317.5 mm) deep x 10.25" (260.3 mm) high
Weight	2.5 lbs (1.13 kilo)
Options	AN-16SB System Bridge; used to combine up to four A-Net streams for transmission over one Cat-5e cable

All Aviom products are designed and manufactured in the USA.

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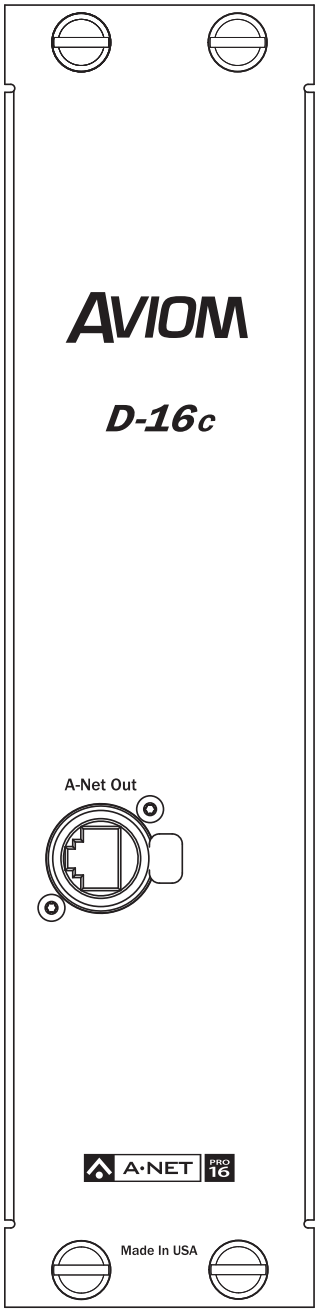
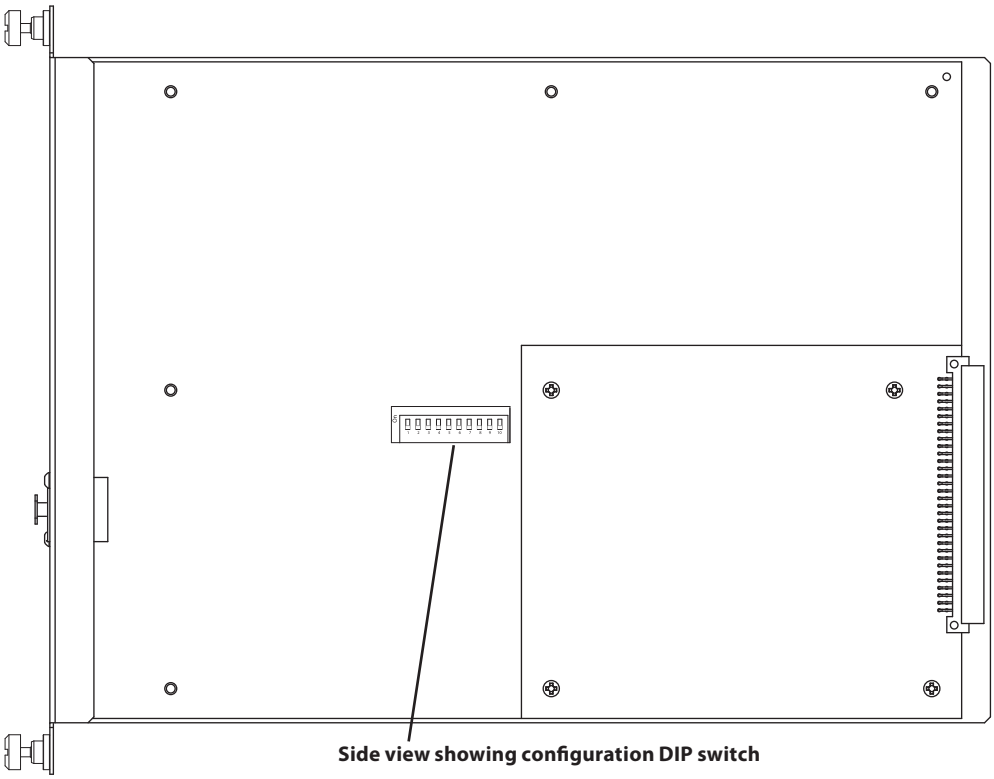


FRONT PANEL FEATURES

- A-Net Out
- Locking EtherCon RJ45 connector with release tab
- Thumb screws (to attach D-16c to expansion chassis)



Side view showing configuration DIP switch

DIP SWITCH CONFIGURATION

Switch	*Position*	*Function*
Switch 1-8	Off	Mono operation, 16 channels
Switch 1-8	On	Channel link for stereo operation with Personal Mixers
Switch 9-10	Off-Off	Normal card operation under host control
	Off-On	Normal card operation with local stereo link control via DIP switch
	On-Off	Debug/Test Mode
	On-On	Test Mode; the D-16c card generates a 1kHz test tone which is output via A-Net.

ARCHITECTURAL SPECIFICATION

The Aviom D-16c card shall provide sixteen channels of digital audio transmitted via an Aviom A-Net network over Cat-5e cable. It shall provide full-bandwidth, high-quality audio by employing the Aviom A-Net Pro16 audio transmission protocol. It shall operate at sampling rates from 44.1kHz to 48 kHz, +/-10%.

Its channel assignments shall be configured and routed from within a DiGiCo digital mixing console, according to the limitations of the DiGiCo product. The card shall meet the specifications of the DiGiCo expansion card format.

The card shall include one 10-position DIP switch, accessible on the main PC board of the card. Stereo linking of channel pairs shall be set with DIP switches 1 through 8. The unit shall be powered from the DiGiCo console's internal power supply. It shall be UL and CE listed.

The rear panel shall have a 64-pin DIN connector to interface with the DiGiCo digital mixing console expansion port connectors.

The D-16c card shall employ a Neutrik EtherCon RJ45 connection for the A-Net Pro16 digital audio output on the front panel.

Its dimensions shall be 2.5 inches (63.5mm) wide, 12.5 inches (317.5mm) deep, and 10.25 inches (260.3mm) high. Its net weight shall be 2.5 pounds (1.13 kilo) , and its steel chassis shall be finished in blue. The unit shall be Aviom, Inc. model Aviom D-16c.

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