



md16ae

AES3 Digital Interface

- » Converts Momentum Digital Audio to/from AES3
- » 16 in / 16 out configuration
- » Allows for integration with popular digital consoles and AES compatible equipment
- » 24 bit Digital Audio with Selectable 48K or 98K sampling
- » Front mounted control panel
- » Input and Output signal/clip LEDs for all 16 channels
- » Selectable Internal, External, or AES3 clock source
- » Gigabit Ethernet Architecture
- » Power over Ethernet (PoE) 802.3af compliant
- » Available with rack mount kit or optional stage boots

DESCRIPTION:

The Momentum md16ae is the first digital interface component of Pro Co's digital snake system. It provides conversion to and from Momentum's digital audio and AES3. The 16 channel, bi-directional format allows users to interface with many AES capable devices, including digital consoles.

The md16ae reduces system latency by removing analog to digital, and digital to analog conversions. It performs the functions of two input and two output modules.

Gigabit Ethernet is standard on all Momentum products and all components are Power over Ethernet (PoE) 802.3af compliant.

All functions are accessible through the front panel or PC software.

OPTIONS:

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- » Fiber optic Ethernet interface
- » Can be added to any Momentum I/O Device

BACK PANEL FEATURES:

Connections

- » DB-25 Tascam Compatible Pin Out
- » DB-9 For Future Use (Control)
- » BNC Word Clock In/Out
- » RJ-45 Ethercon/RJ-45 (Data)
- » 2.5 mm Parallel 48 Volt DC Power



SPECIFICATIONS:

Output Module: mo8me

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|--------------------------|--|
| Resolution | 24 bit, 48/96 kHz |
| Digital Audio I/O | 16 inputs, 16 outputs |
| Digital Audio Connectors | Tascam® Compatible DB25 Connectors |
| Clock Sources | External (via Word Clock In) Momentum Clock, or AES3 (via CH1 and CH2 of the AES3 input) |
| External Clock Interface | BNC Word Clock In and Out |
| Word Clock Input | Sensitivity: 0.2 to 5Vp-p |
| Word Clock Output | 3.3Vp-p |
| Impedance | 75 ohms/70K ohms |
| Jitter Attenuation | Below AES3 Jitter Transfer Function Mask |

Network Specifications

- Standard Gigabit Ethernet Protocol (100 meters maximum distance)
- Power Over Ethernet (PoE) 802.3af Compliant (50 meters maximum distance)
- Up to 256 total active system inputs at 48K or 96K sampling
- Onboard memory and programming
- 0.315 ms A/A latency 96K sampling (no DSP)
- 0.630 ms A/A latency 48K sampling (no DSP)
- 1.00 ms A/A latency 48K sampling (with DSP)
- Open UDP Ethernet communication for 3rd party control

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