

Audio Format Converters

Models A2-7300 Series

A2-7300 Series units are high quality audio format converters designed primarily to provide maximum format flexibility for the C2-7310 HD Audio/Video Processor's audio inputs and outputs. The C2-7310 provides AES3-id audio I/O via two HD-44 Connectors. Any two of the A2-7300 models, or two of the same model, can connect to these connectors to bring the AES3-id signals out to BNC connectors or to change the audio format completely. All of the AES audio channels can be synchronized to a DARS reference when connected to the C2-7310 via any of the A2-7300 units. Additionally, the A2-7300 units may be used in conjunction with one another, without the C2-7310, to provide bi-directional analog/digital or AES3/AES3-id conversion.

A2-7302 provides an HD-44 interface to 16 AES (8-in/8-out) on XLR connectors and a DARS reference input on a BNC connector. This unit contains eight balanced AES to AES3-id converters, plus eight AES3-id to balanced AES converters to provide AES I/O.

A2-7312 provides an HD-44 interface to 16 AES3-id (8-in/8-out) and a DARS reference input on BNC's mounted on a 1RU panel via a 1.5 meter (4.5') interconnect cable. The connectors may be separated from the panel if system wiring requirements dictate.

A2-7322 provides an HD-44 to 16 Analog Stereo (8-in/8-out), balanced or unbalanced, on terminals and a DARS reference input on a BNC connector. This unit contains eight high quality stereo analog to AES3-id converters, plus eight high quality AES3-id to stereo analog converters. The audio sample rate is user adjustable in stand alone mode using DIP switches or selectable from the C2-7310 menu when connected.

A2-7342 provides an HD-44 to 8 Analog Stereo (4-in/4-out) on XLR's and a DARS reference input on a BNC connector. This unit contains four high quality stereo analog to AES3-id converters, plus four high quality AES3-id to stereo analog. The audio sample rate is user adjustable in stand alone mode using DIP switches or selected from the C2-7310 menu when connected.

Specifications

A2-7302 Format Converter Interface via HD-44 Connector Digital Audio I/O Inputs 8 Channels AES3 via 8x XLR Outputs 8 Channels AES3 via 8x XLR DARS Reference 75Ω BNC Impedance 110 Ω (Digital I/O) 1Vp-p AES3-id in on HD44 equates to 0.5Vp-p out on XLR (or 1Vp-p differential). Voltage Levels 5Vp-p (differential) AES3 input on XLR equates to 2.0 Vp-p output on HD44

Mechanical

Size (HWD) 44x482x200mm (1.75"x19"x7.9")

Weight 2.5kg (5.5 lbs)

Regulatory Approvals

Format Converter FCC, CE, RoHS



A2-7302



A2-7312



A2-7322



A2-7342

Key Audio Features of the A2-7312

- 8 AES3-id Inputs on 75Ω BNC Connectors
- 8 AES3-id Outputs on 75 Ω BNC Connectors
- DARS AES3-id Input on a BNC Connector

Key Audio Features of the A2-7302

- 8 Balanced AES inputs on XLR connectors
- 8 Balanced AES outputs on XLR connectors
- DARS AES3-id input on a BNC connector

Key Audio Features of the A2-7322

- 8 Balanced/Unbalanced Stereo In on Terminals
- 8 Balanced/Unbalanced Stereo Out on Terminals
- DARS AES3-id Input on a BNC connector
- User adjustable sample rates 32, 44.1, 48, 96KHz

Key Audio Features of the A2-7342

- 4 Balanced Stereo Inputs on XLR connectors
- 4 Balanced Stereo Outputs on XLR connectors
- DARS AES3-id Input on a BNC Connector
- User adjustable sample rates 32, 44.1, 48KHz

A2-7312 Breakout Unit

Interface via HD-44 Connector

Digital Audio I/O

Inputs 8 Channels AES3-id via 8 x BNC Outputs 8 Channels AES3-id via 8 x BNC

 $\begin{array}{ll} {\rm DARS~Reference} & 75\Omega~{\rm BNC} \\ {\rm Impedance} & 75\Omega~({\rm Digital~I/O}) \end{array}$

Voltage Level 1V p-p

Mechanical

Size (HW) 44x482mm (1.75"x19")

Weight 1.1kg (2.4 lbs)

Regulatory Approvals

Breakout Unit FCC, CE, RoHS



Audio Format Converters

Models A2-7300 Series

A2-7322 Format Converter

Interface via HD-44 Connector

Analog Stereo Audio I/O

Inputs 8 Channels Stereo via Terminals
Outputs 8 Channels Stereo via Terminals

DARS Reference 75Ω BNC

Impedance 600Ω Balanced (Analog I/O)

6Vp-p input maximum (8.75dBu).

Voltage Level 0dBFS AES3 input equating to

8.75dBu analog output

THD+Noise at 48KHz -97dB (A to D), -93dB (D to A)

Mechanical

Size (HWD) 44x482x200mm (1.75"x19"x7.9")

Weight 3.0kg (6.6 lbs)

Power Requirement

External Power 12VDC @ 3A

Regulatory Approvals

Format Converter FCC, CE, RoHS

A2-7342 Format Converter

Interface via HD-44 Connector

Audio Stereo Audio I/O

Inputs 4 Channels Stereo via 8x XLR Outputs 4 Channels Stereo via 8x XLR

DARS Reference 75Ω BNC

Impedance 600Ω Balanced (Analog I/O)
Voltage Level 0dbFS =6Vp-p (8.75 dBu) AES3

Voltage Level input maximum

THD+Noise at 48KHz -100dB (A to D), -97dB (D to A) Bandwidth 30 Hz to 22.5 kHz (-3dB)

Mechanical

Size (HWD) 44x482x200mm (1.75"x19"x7.9")

Weight 2.7kg (6.0 lbs)

Power Requirement

External Power 12VDC @ 3A

Regulatory Approvals

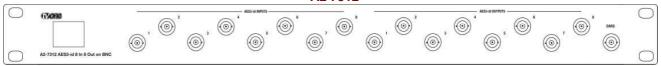
Format Converter FCC, CE, RoHS

Panel Drawings

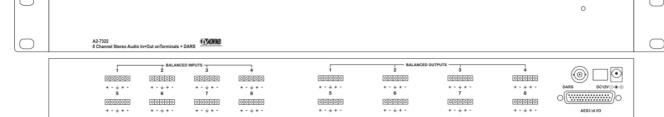
A2-7302



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