



## 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
<b>Digital Audio I/O</b>	
Inputs	8 Channels AES3 via 8x XLR
Outputs	8 Channels AES3 via 8x XLR
DARS Reference	75Ω BNC
Impedance	110Ω (Digital I/O)
Voltage Levels	1Vp-p AES3-id in on HD44 equates to 0.5Vp-p out on XLR (or 1Vp-p differential).
	5Vp-p (differential) AES3 input on XLR equates to 2.0 Vp-p output on HD44
<b>Mechanical</b>	
Size (HWD)	44x482x200mm (1.75"x19"x7.9")
Weight	2.5kg (5.5 lbs)
<b>Regulatory Approvals</b>	
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 75Ω 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
<b>Digital Audio I/O</b>	
Inputs	8 Channels AES3-id via 8 x BNC
Outputs	8 Channels AES3-id via 8 x BNC
DARS Reference	75Ω BNC
Impedance	75Ω (Digital I/O)
Voltage Level	1V p-p
<b>Mechanical</b>	
Size (HW)	44x482mm (1.75"x19")
Weight	1.1kg (2.4 lbs)
<b>Regulatory Approvals</b>	
Breakout Unit	FCC, CE, RoHS



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### A2-7322 Format Converter

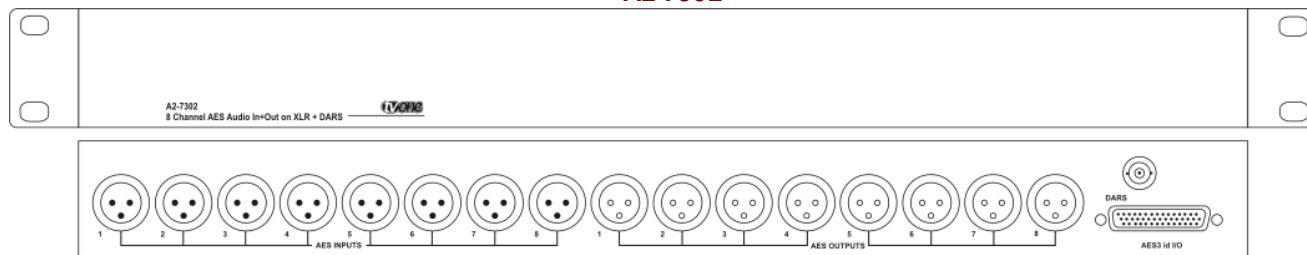
Interface	via HD-44 Connector
<b>Analog Stereo Audio I/O</b>	
Inputs	8 Channels Stereo via Terminals
Outputs	8 Channels Stereo via Terminals
DARS Reference	75Ω BNC
Impedance	600Ω Balanced (Analog I/O) 6Vp-p input maximum (8.75dBu).
Voltage Level	0dBFS AES3 input equating to 8.75dBu analog output
THD+Noise at 48KHz	-97dB (A to D), -93dB (D to A)
<b>Mechanical</b>	
Size (HWD)	44x482x200mm (1.75"x19"x7.9")
Weight	3.0kg (6.6 lbs)
<b>Power Requirement</b>	
External Power	12VDC @ 3A
<b>Regulatory Approvals</b>	
Format Converter	FCC, CE, RoHS

### A2-7342 Format Converter

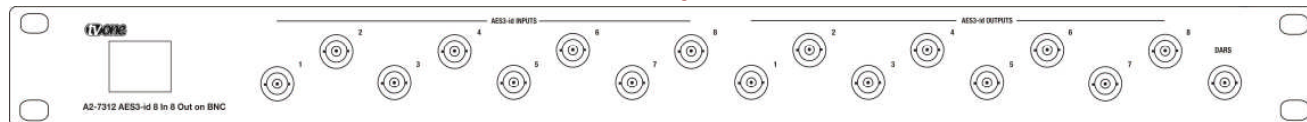
Interface	via HD-44 Connector
<b>Audio Stereo Audio I/O</b>	
Inputs	4 Channels Stereo via 8x XLR
Outputs	4 Channels Stereo via 8x XLR
DARS Reference	75Ω BNC
Impedance	600Ω Balanced (Analog I/O) 0dbFS =6Vp-p (8.75 dBu) AES3
Voltage Level	input maximum
THD+Noise at 48KHz	-100dB (A to D), -97dB (D to A)
Bandwidth	30 Hz to 22.5 kHz (-3dB)
<b>Mechanical</b>	
Size (HWD)	44x482x200mm (1.75"x19"x7.9")
Weight	2.7kg (6.0 lbs)
<b>Power Requirement</b>	
External Power	12VDC @ 3A
<b>Regulatory Approvals</b>	
Format Converter	FCC, CE, RoHS

## Panel Drawings

### A2-7302



### A2-7312



### A2-7322



### A2-7342

