

# 7720ADC-A4, 7720ADC-A4-B

## Quad Analog Audio to Dual AES Converter and Balanced AES Converter



The 7720ADC-A4 is a high-quality, 24-bit, analog to digital audio converter which provides digital conversion of four balanced analog audio channels and provides two unbalanced (or balanced from the 7720ADC-A4-B) AES/EBU channels out.

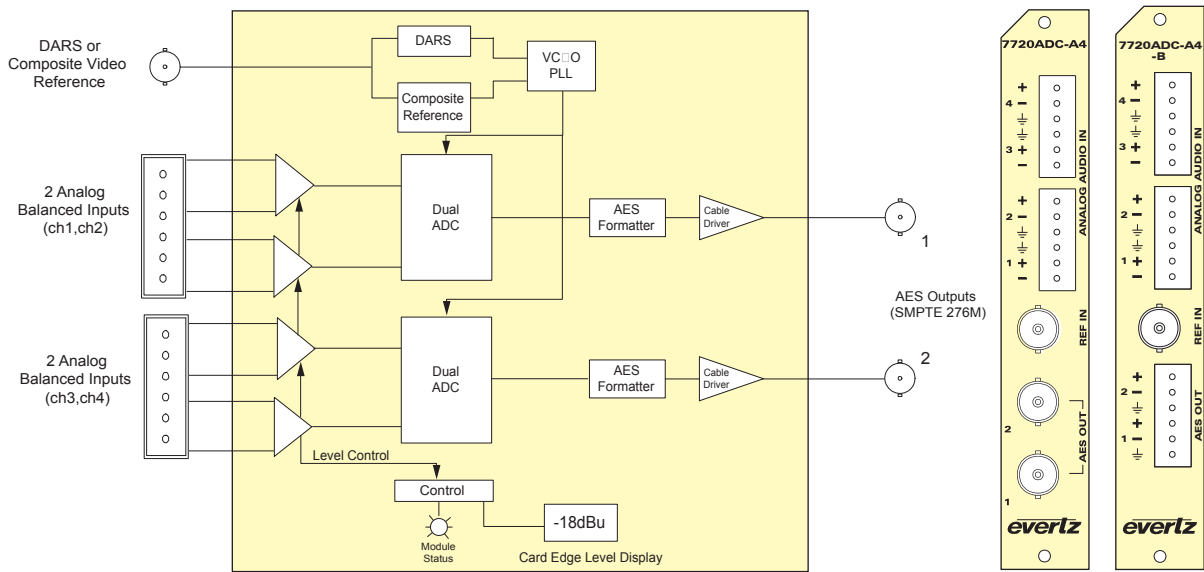
The full-scale digital signal can be calibrated to accommodate peak levels ranging from 8dBu to 27dBu with 0.5dB resolution.

The sampling clock may free run at 48 kHz or may be locked to either a DARS (Digital Audio Reference Signal) reference or composite video reference. Level control is provided via a card edge toggle switch. The input gain level can be read out from a card edge display for convenience.

The audio ADC features a card edge VU meter for quick confidence monitoring. Four separate level indicators are provided via bar graphs for quick validation of audio program material.

### Features & Benefits

- Auto detect composite video or DARS on the reference input
- 24-bit, high-quality analog to digital audio conversion
- Support for four channels of analog audio (two AES/EBU)
- Local card edge display and control of input gain
- 0dBFS programmable from 8dBu to 27dBu
- A card edge display provides a four channel bar graph type level indicator display for confidence monitoring
- Automatic DC removal
- VistaLINK® capable for remote monitoring, control and configuration capabilities via SNMP; using VistaLINK® PRO, CP-2116E or CP-2232E Control Panels. VistaLINK® is available when modules are used with the 3RU 7800FR frame and a 7700FC VistaLINK® Frame Controller module in slot 1 of the frame



### Specifications

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| <b>Analog Audio Input:</b><br>Number of Inputs: 4<br>Type: Balanced analog audio<br>Connector: Removable terminal strip<br>Input Impedance: 10kΩ minimum (differential)<br>Sampling Frequency: 48kHz (freerun or locked to the reference)<br>Signal Level: 0dB FS = 8dBu to 27dBu (programmable via 0dB/+6dB jumper and card edge fine gain with -10dB +10dB range)<br>Frequency Response: ±0.1dB (20Hz to 20kHz)<br>SNR: 100dB with input at -1dB FS<br>THD+N: < 0.001% (> 100dB) @ 20Hz to 20kHz, -1dB FS<br>CMRR: > 100dB @ 1kHz<br>Crosstalk: < -100dB @ 20Hz-20kHz<br>Inter-channel Phase error: < 1°, 20Hz-20kHz | <b>Reference Input:</b><br>Standard: NTSC (SMPTE ST 170), PAL (ITU624-4), DARS<br>Number of Inputs: 1<br>Connector: BNC per IEC 61169-8 Annex A<br>Signal Level: Video: Max: 2V p-p video (composite only)<br>Min: Sync level 150m (composite only)<br>DARS: SMPTE 276M, 1V p-p<br>Frequency Lock Range: ±100ppm from nominal<br>Input Impedance: High impedance<br>Return Loss: > 25dB to 10MHz (with external 75Ω termination) | <b>AES Audio Output:</b><br>Standard: SMPTE 276M single ended AES<br>Number of Outputs: 2<br>Connectors: BNC per IEC 61169-8 Annex A<br>Resolution: 24-bits<br>Sampling Rate: 48kHz<br>Impedance: 75Ω unbalanced<br>I/O Delay: 0.87ms<br><b>Electrical:</b><br>Voltage: +12V DC<br>Power: 10W (nominal)<br>EMI/RFI: Complies with FCC Part 15, Class A EU EMC Directive<br><b>Physical (number of slots):</b><br>350FR: 1<br>7700FR-C: 1<br>7800FR: 1 |
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### Ordering Information

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|---|---|--|---|
| <b>7720ADC-A4</b><br><b>7720ADC-A4-B</b>              | Quad Analog Audio to Dual AES Converter<br>Quad Analog Audio to Dual Balanced AES Converter         | <b>Accessories</b><br><b>7700FC</b><br><b>CP-2116E-H</b><br><b>CP-2232E</b>                              | VistaLINK® Frame Controller<br>Remote Control Panel<br>Remote Control Panel   |
| <b>Ordering Options</b>                               | Rear Plate must be specified at time of order (Eg: Model +3RU)                                      | <b>Enclosures</b><br><b>350FR</b><br><b>7700FR-C</b><br><b>7800FR</b><br><b>7801FR</b><br><b>S7701FR</b> | 3RU Portable Multiframe which holds up to 7 single slot modules<br>3RU Multiframe which holds up to 15 single slot modules<br>3RU Multiframe which holds up to 15 single slot modules<br>1RU Multiframe which holds up to 4 single or 2 dual slot modules<br>Standalone Enclosure |
| <b>Rear Plate Suffix</b><br><b>+3RU</b><br><b>+SA</b> | 3RU Rear Plate for use with 350FR, 7700FR-C or 7800FR Multiframe<br>Standalone Enclosure Rear Plate |  |   |

The Complete Solution Provider

