

CAT 1796 8-Channel D: A Converter (AES3)



8-Channel digital-to-analog converter with HI/VI-n support

The CAT 1796 is a low cost Digital to Analog (D-to-A) converter designed for cinemas. It converts 5.1 audio with the capability of routing Hearing Impaired (HI) and Visually Impaired Narration (VI-N). If the installation requires Dolby Surround 7.1, HI/VI-N must be routed outside this device.

Inputs

- 4xAES DB25-Female connector. Uses the DMA8Plus/CP750/CP850 pinout. Total of 8 channels accepted with ability to use channels 7/8 or 15/16 for HI/VI-N.
- RJ45 input, channels 1-8
- RJ45 input, channels 15/16
(The RJ45 and DB25 AES inputs are wired in parallel. One connector will be used and the other will have no connection.)

Digital HI/VI output

- Single RJ45 carries HI/VI-N on pair 4 (pin equivalent to Sony transmitters, Odyssey HI/VI-N RJ breakout boards, and others).

Analog outputs

- DB25-Male, uses the DMA8/DMA8Plus pin-out. Balanced outputs for 5.1 audio with HI/VI-N, or 7.1 audio with no analog HI/VI-N support
- 5-position, 3.81 mm Phoenix plug for HI and VI-N (balanced outputs)

HI/VI routing

- Jumpers are available for selecting AES channels 7/8 or 15/16 for HI/VI
- Other jumpers select between Digital or Analog HI/VI output

Other settings

- Internal jumpers allow the selection of “5.1 plus HI/VI-N” (default), or “7.1 Dolby Surround” modes.

Dimensions

- 19”W x 5”D x 1.75”H (482 x 127 x 44.5 mm) (Unit)
- 22”W x 6.5”D x 2.5”H (559 x 165 x 63mm) (Shipping)
- 2.05 lbs (.93 kg) (Unit) - 3.1 lbs (1.4 kg) (Shipping)

Power

- Input: 100 - 240VAC, 0.48A, 50 - 60 Hz
- Output to 4XD2A: 15VDC, 1.3A
- Maximum PWR Consumption: 13.5W
- BTU (heat produced): 4 BTU/hr

Operating conditions

- Standard operating temperature: 0° C to 40° C (32° F to 104° F)
- Non-operating temperature: -10° C to 60° C (14° F to 140° F)
- Standard operating humidity: 20% to 80% noncondensing
- Non-operating humidity: 20% to 80% noncondensing

This documentation applies to Model CID4XD2A



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