

CTD-300 Composite to AES3 Converter



Audio Format Converter from Composite Baseband to AES3



CTD-300 Composite Audio to AES3 Format Converter, front panel

Features

- Accepts a standard 3.5 volt peak-to-peak baseband input signal for decoding to left and right and conversion to AES3 output
- Baseband level adjustment is provided along with left/right level controls
- Can also be used as a high-quality monitor to decode composite output from a modulation monitor for studio applications
- Converts to two (2) AES3 balanced outputs or converts to balanced +4 dBm analog stereo output, internal jumper selectable
- Output sample rates from 32 to 96 KHz – DIP switch selectable

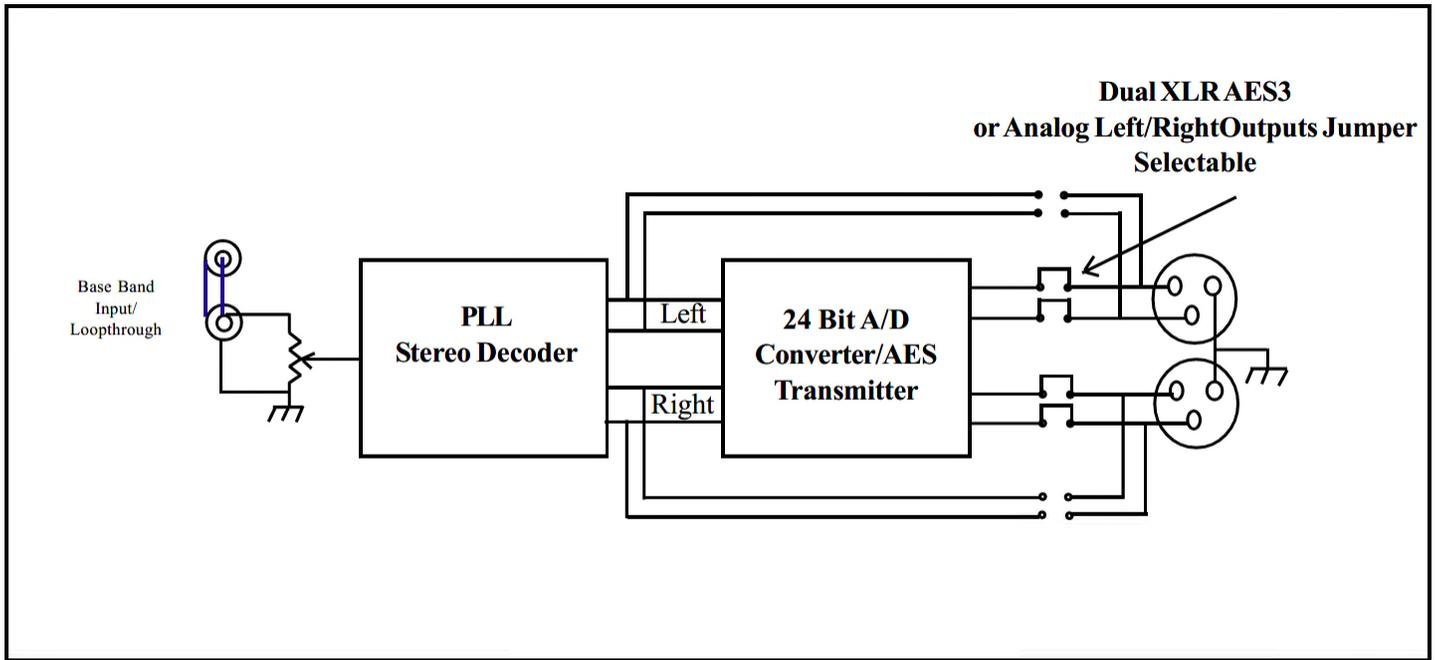
Product Description

The CTD-300 is the answer to bridge the gap between the analog world and the new digital world of audio. The CTD-300 can convert any baseband FM stereo waveform into a pair of AES3 outputs suitable for digital input excitors and other equipment. The unit accepts a standard 3.5 V peak-to-peak baseband signal for decoding left and right channels and converting to an AES3 output. The unit can be configured to output de-emphasized left and right analog audio, too. By simple jumper selection, the CTD-300 can be quickly configured to provide AES3 or analog left/right outputs. 75 or 50 μ S de-emphasis is provided, or the unit can be configured to pass 75 or 50 μ S pre-emphasis if the application requires it. The CTD-300 is factory set to accept the standard 3.5 V peak-to-peak signal from an analog STL or a stereo generator. Baseband level adjustment is provided along with left/right level controls. The CTD-300 is the perfect solution for converting analog baseband into a suitable output for digital input equipment. Whether your application is for the new digital broadcasting standard or you just need to get a signal from one site to another, the CTD-300 is a high-quality, affordable solution. The CTD-300 can also be used as a high-quality monitor decoder for studio applications. Simply connect an output from your baseband modulation monitor, and you now have a pair of AES3 outputs of your off-air signal. Of course, you can choose left/right analog too.

The CTD-300 is another product from BDI engineers, built to high standards. Our products are proudly made in the USA with high-quality components. Each has an EMI-protected, regulated power supply. We don't use so-called "wall warts" for mission-critical products that are a vital part of your air chain, and you shouldn't either.

BDI has been a leader in FM/TV audio signal switching, distribution, and digital audio conversion. Find out why so many broadcasters around the world rely on BDI products for maintaining the integrity of the most critical part of their signal paths. Every BDI product carries a full one year warranty on parts and labor and is designed to meet the rigors of even the harshest environments. Call us today or visit our website for applications and dealer information.

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CTD-300 Composite Audio to AES3 Format Converter Blok Diagram

Technical Specifications	CTD-300
Composite Input Level:	Composite Baseband 3.5 VPP adjustable
Composite Input Impedance:	100Kohm unbalanced
Output Impedance:	110 ohm balanced - AES3 digital, 600 ohms balanced – analog
Number of Outputs:	Two (2) AES3 Standard rear panel XLR or One (1) Analog Stereo balanced +4 dBm rear panel XLR - Selectable
De Emphasis:	75uS, 50uS or none - jumper selectable
Stereo Separation:	Better than 40 dB from 50Hz to 15 KHz
Digital Sample Rate:	32, 44.1, 48, or 96 KHz field selectable
Number of bits:	Supports up to 24 audio bits
Power Requirements:	120/240 VAC, 50/60 Hz @ 0.25A. EIC Power Entry Cord
Operating Ambient Temperature:	32 to 122 degrees, F (0 to 50 degrees, C)
Humidity:	95%, Non-condensing
Mechanical Dimensions:	19 in W x 10 in D x 1.75 in H (483 mm W x 254 mm D x 44 mm H) Standard One EIA Rack Unit Enclosure
Shipping Dimensions:	22 in W x 14 in D x 7 in H (559 mm W x 356 mm D x 178 mm H)
Shipping Weight:	8 lbs. (4 kg)