

CDS-302 Composite Baseband Audio Switcher

Dual Input Switcher/DA with Silence Sensor



CDS-302 Composite Baseband Audio Switcher, rear (top) and front (bottom) panels

Features

- Accepts 2 Composite Baseband FM Stereo with selectable balanced or unbalanced Inputs
- DC Coupled Signal Path for transparent handling of baseband signals
- RBDS Loop through-keeps RBDS locked and added to either composite input
- Three (3) Output Distribution Amplifier with individual level controls (2 on the rear panel and one on the front panel)
- GPIO Remote Control/Status
- Automatically switches between inputs upon silence-user adjustable 30 or 60 seconds
- Accepts optional BDI model CTD-1 module to provide decoded AES3 or analog replica of incoming baseband
- 19-inch single rack unit. chassis with integrated 120/240 VAC power supply
- 30 or 60 Second Silence Detection with automatic switching on loss of audio

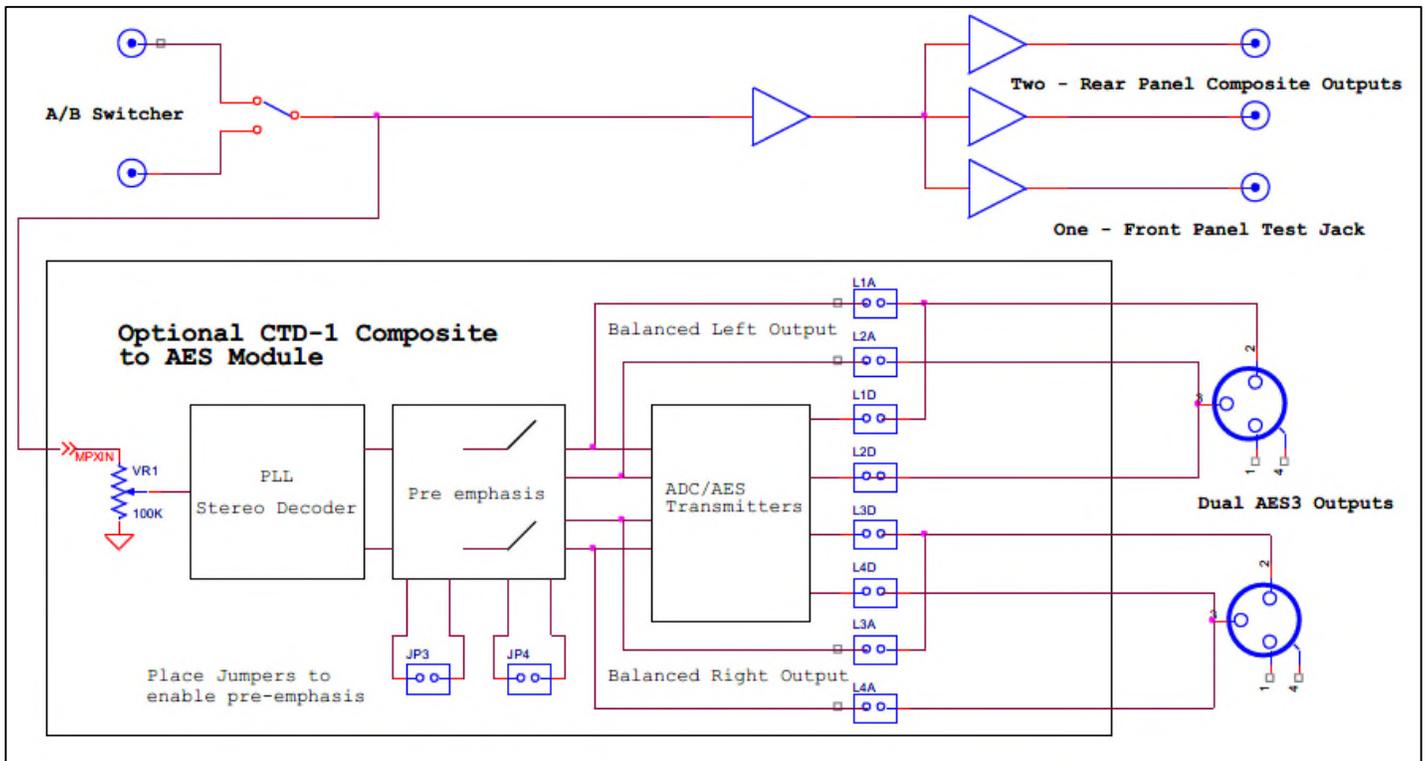
Product Description

The CDS-302 accepts two (2) composite baseband FM Stereo signals and distributes the selected input to up to three 50-ohm loads. Because the unit has an onboard silence sensor, it can automatically detect the loss of audio and switch to the alternate path. Other important features include our exclusive RBDS loop-through feature. With the flip of a switch, you can route the selected incoming baseband signal out to an RBDS generator, where the RBDS signal can be added and locked to the incoming composite audio, and then routed back into the unit for application to the distribution amplifier. Make sure your newest processor and RBDS generator are always on whichever transmitter is on the air. With the CDS-302, you only need one RBDS generator - saving you money. Processors can lock up, and when they do, you can automatically or manually switch to a backup processor. Are you worried about signal integrity? The CDS-302 has a DC-coupled signal path. This means your composite audio will arrive at the FM exciter without overshoot or phase delay. In addition, the unit can accept balanced or unbalanced inputs with the flip of a switch. Are your levels different between exciters? The CDS-302 has individual output-level controls for level trimming on each FM exciter. Other uses include main/standby RBDS or SCA generator switching and distribution. The CDS-302 has a minimum usable bandwidth of 100 KHz.

Part Number	Description
CDS-302	Composite FM Stereo Switcher/Distribution Amplifier/Silence Sensor. Two (2), 50-ohm BNC baseband inputs, three (3), 50-ohm BNC baseband outputs (two (2) on rear panel, one (1) on front panel). Automatic or manual operation with a silence sensor
CTD-1	Optional Baseband-to-AES3 Converter Module Installs in CDS-302. Module inserts in any BDI CDS-300 or CDS-302. Converts baseband FM stereo to de-emphasized AES3 out or analog L/R balanced output.

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Technical Specifications		CDS-302
Inputs:	Two (2) BNC	
Input Impedance:	10K or 50 ohm balanced/unbalanced selectable	
Outputs:	Three (3) balanced 50 ohm BNC Two (2) rear panel One (1) front panel	
Output Impedance:	50 ohms unbalanced	
Maximum Output Level:	4 Volts Peak to Peak into 50 ohms, 10 Volts Peak to Peak into bridging 10K load	
Gain Adjustment:	6 dB variable	
Frequency Response:	±0.07 dB 1 Hz-53 KHz, ± 0.1 dB 53-100 KHz	
Total Harmonic Distortion:	0.05% or less at 1 KHz 4 V PP into 50 ohms	
IMD Distortion:	0.05% or less using SMPTE 4:1 Method	
Remote Control/Status:	Via DB9F connector-momentary input select, error reset, NC/C/NO dry status of channel selected, error status	
Silence Sensor:	30 or 60 seconds user defined	
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:	7 lbs. (3 kg)	



CDS-302 Block Diagram including optional CTD-1 Composite to AES Module.