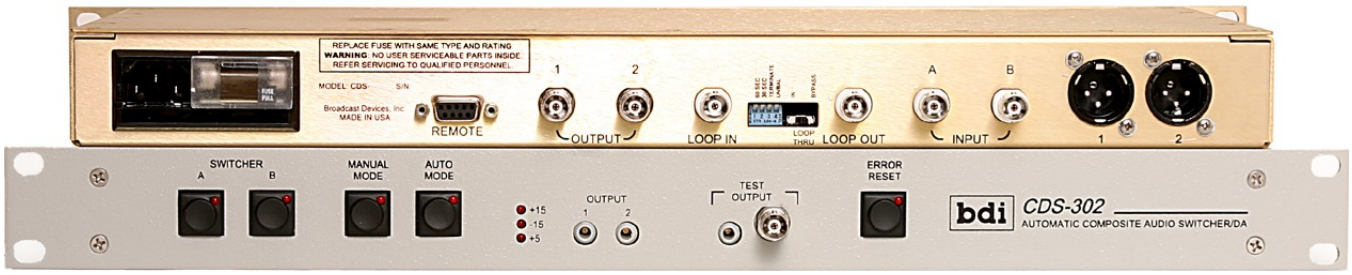
CDS-302 Automatic Composite Baseband Audio Switcher/DA

2—Input Switcher with Silence Sensor

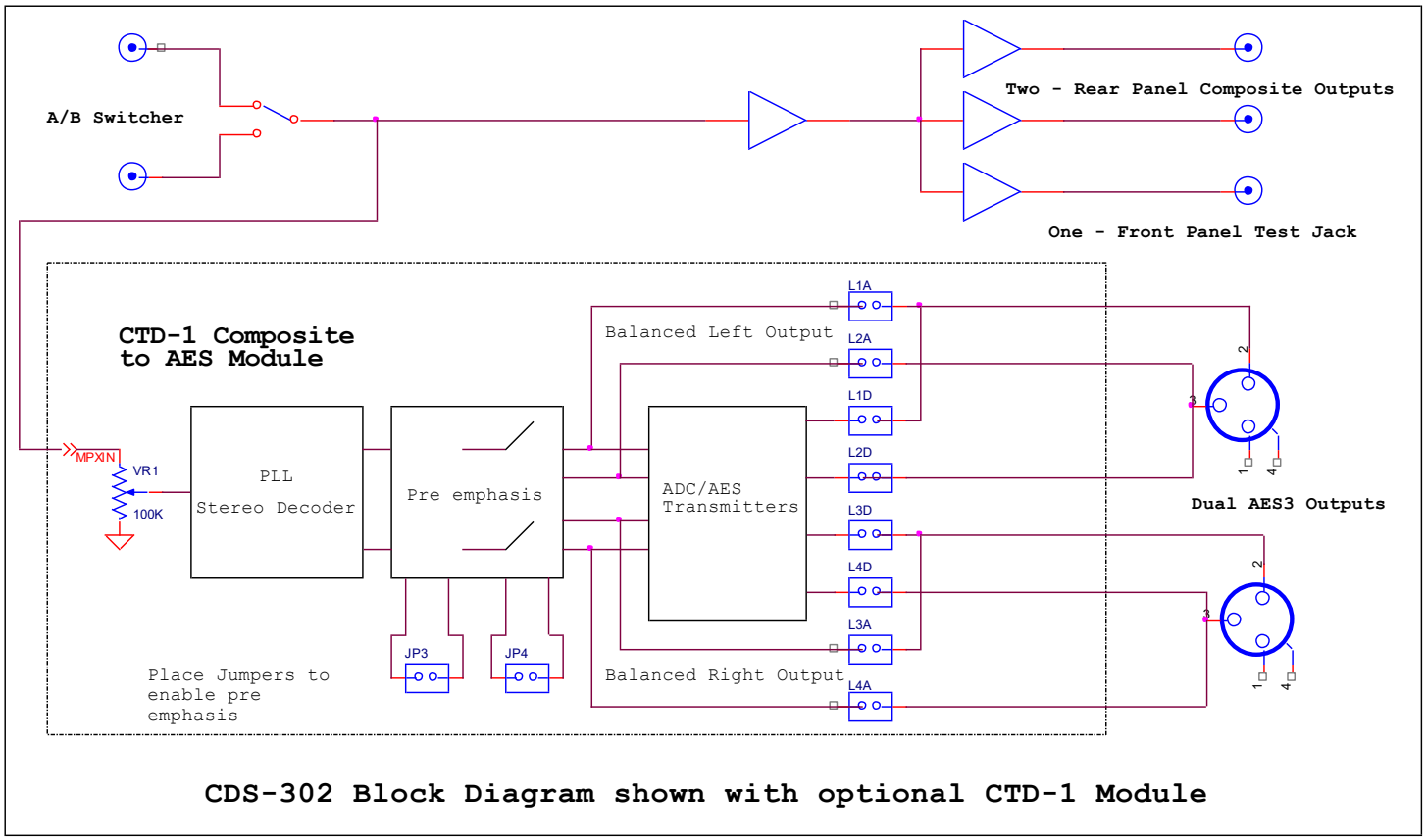


The CDS-302 accepts two composite baseband FM Stereo signals and distributes the selected input to up to three 50 ohm loads. Because the unit has an on board silence sensor it can automatically detect the loss of audio and switch to the alternate path. Other important features include our exclusive RBDS 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 where it is 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 D.C. coupled signal path. This means your composite audio will arrive at the exciter without overshoot or phase delay. In addition the unit has the ability to 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 to each exciter. Other uses include main/standby RBDS or SCA generator switching and distribution. The CDS-302 has a minimum useable bandwidth of 100 KHz.

- Accepts 2 Composite Baseband FM Stereo balanced or unbalanced Inputs
- D.C. Coupled Signal Path for transparent handling of baseband signals
- RBDS Loop through—keeps RBDS locked and added to either composite input
- 3 Output Distribution Amplifier with individual level controls
- 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—See block diagram on page 2
- 19” single R.U. chassis with integrated 120/240 VAC power supply

Technical Specifications

Inputs:	2—BNC balanced or unbalanced 10K or 50 ohms
Outputs:	3—balanced 50 ohm BNC 2 rear 1 front panel
Maximum Output Level:	4 V PP into 50 ohms, 10 V PP into bridging 10K load
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
Electrical Requirements:	100-240 VAC 50-60 Hertz @ 0.25A. EIC Power Entry Cord
Physical Specifications:	19” W X 8.25” D X 1.75” H—Standard EIA Rack Enclosure Mount
Environmental Requirements:	0-55 degrees C non condensing atmosphere
Shipping Carton Dimensions/Weight	22” L X 14” W X 7” H, 7 lbs.



CDS-302 Block Diagram shown with optional CTD-1 Module