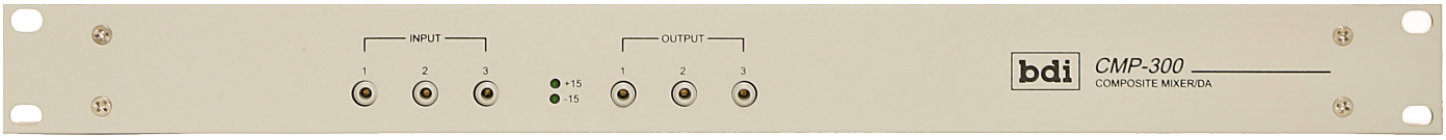
CMP-300 Composite Mixer System

Composite Audio Mixer and Distribution Amplifier



CMP-300 Composite Audio Mixer, front panel

CMP-300 Composite Audio Mixer, rear panel

Features

- Allows adding multiple SCA generators plus an RBDS generator to FM exciters that do not include enough composite inputs
- Supports three (3) Baseband composite inputs and outputs
- Mixed signals can be distributed to as many as three (3) different exciters or STL transmitters
- Each Input supports balanced or unbalanced operation
- Each input and output has individual level controls
- DC coupled throughout for transparent pass through of baseband signals
- Each composite audio output line driver can drive a 50-ohm load from as far as 100 feet (30 meters) away
- Each output includes individual-level controls on the front panel

Product Description

The CMP-300 Composite Mixer and Distribution Amplifier System is intended to be used in conjunction with suitable FM stereo generators and/or composite STL receivers, SCA generators, and RBDS generators for the purpose of distributing the combined composite signals to up to three FM exciters and when desired, can be used to combine up to three base band type signal for application to up to three exciters. This is done with a high degree of isolation so that equipment can be interfaced easily. The typical configuration for the CMP-300 is to distribute a composite stereo and SCA/RBDS signals to a main and backup exciter.

The CMP-300 was developed to address the lack of sufficient inputs or outputs for baseband signals. Many stations are adding subcarriers and RBDS services, but some FM exciters lack the proper number of inputs. The CMP-300 has three balanced or unbalanced inputs that can easily mix composite stereo, subcarrier, and RBDS signals. The unit has a three-output distribution amplifier, allowing mixed signals to be distributed to up to three exciters or STLs. Each input is switchable between balanced and unbalanced operation on the rear panel. Each output can drive a 50-ohm load up to 100 feet from the unit, thanks to a heavy-duty line driver in the design. The front panel provides level control for inputs and outputs, giving you complete flexibility.

BDI has been a leader in producing composite audio products for many years, and the CMP-300 is a third-generation product designed to help broadcasters meet the demands of today's broadcasting environment while keeping budgets intact. Call us today for application assistance, or call your favorite broadcast equipment dealer to order.

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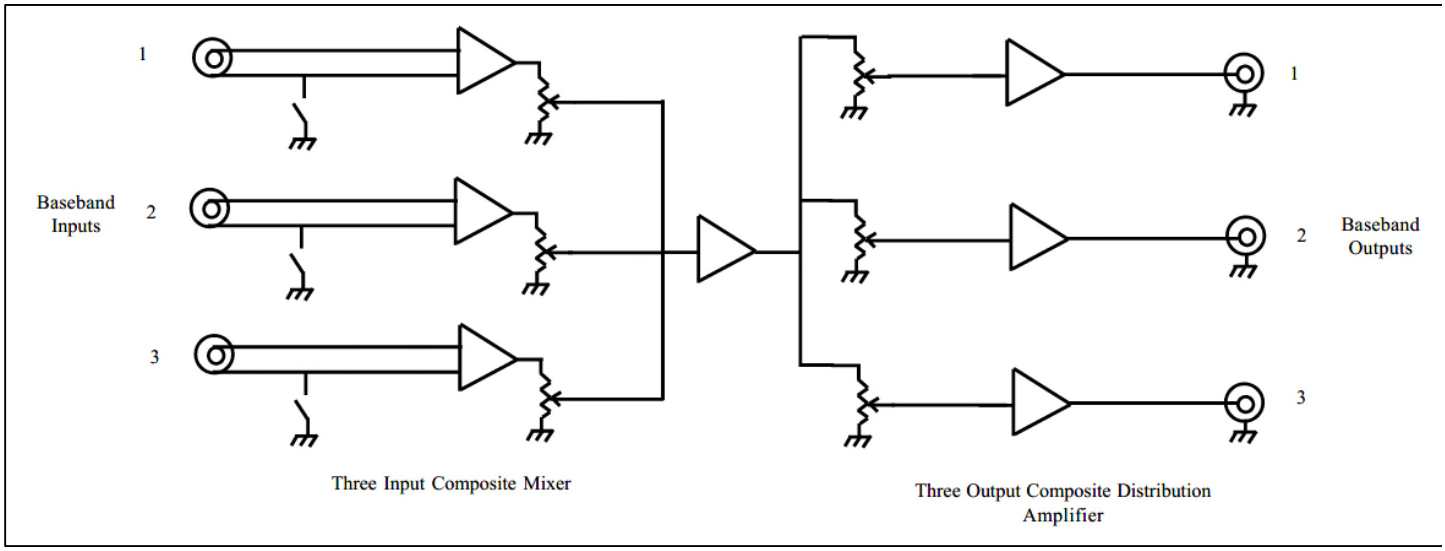

CMP-300 Composite Audio Mixer and Distribution Amplifier Block Diagram

Technical Specifications	CMP-300
Inputs:	Three (3) BNC
Input Impedance:	10K ohm balanced/unbalanced selectable
Outputs:	Three (3) BNC Two (2) rear panel One (1) front panel
Output Impedance:	50 ohms unbalanced
Maximum Output Level:	10 Volts Peak to Peak into 50 ohms
Gain Adjustment:	6 dB variable
Frequency Response:	Better than ±0.05 dB from 20 Hz to 100 kHz
Total Harmonic Distortion:	0.02% or less at 400 Hz 4 V PP into 50 ohms
IMD Distortion:	0.05% or less using SMPTE 4:1 Method
Signal to Noise Ratio:	Better than 80 dB below 4 Volts Peak to Peak Output
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)

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