

NANOAMP™ Compact Distribution Amplifier

DA103

The NANOAMP MIC and Line level 1X3 Distribution Amplifiers consist of independent +22dBm servo balanced outputs in 1/3 RU enclosure. The master gain controls have three output trim pots. The **DA103** accepts a line level input, balanced or unbalanced audio at -20, -10 or +4dBu nominal and provides a line level output at +4dBm nominal level to balanced or unbalanced output lines. The **DA103** input/output connectors are two piece solderless "Phoenix" types, individual for each input and output line.

The **DA103** accepts a maximum line input level of +22dBu to high impedance (20Kohms) balanced instrumentation amplifier input (A1) and drives three servo balanced 600-ohm (minimum load) outputs (A3, A4, A5) up to +22dBm maximum. An internal input gain setting jumper plug optimizes the input stage gain, noise and headroom for nominal inputs at -20, -10 or +4dBu. The servo-balanced outputs automatically detect single-ended (one side grounded) loads; remove the drive signal from the grounded output and double the signal applied to the ungrounded output thus maintaining equal gain for both types of loading.

- Independent servo balanced outputs
- Master gain control
- DIP selection
- Phantom power
- MIC/Line gain



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Technical Specifications

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OUTPUT LEVEL	+22dBm MAX, +4dBm Nominal into 600 ohm balanced or unbalanced lines
FREQUENCY RESPONSE	+/- .25dB 20Hz to 20kHz
DISTORSION	.05% THD Maximum at +20dBm; .005% at nominal levels 20Hz to 20kHz
NOISE	MIC Input: EIN = -124dBm, LINE Input: EIN = -90dBm, 20Hz to 20kHz measurement bandwidth
GAIN	Internal DIP switch gain selection at 30, 40, 60 or 80dB maximum.
PHANTOM POWER	+20VDC regulated; Optional 48VDC available.
POWER	22 to 30VDC, 24VDC Nominal. @ 100mA; See Power Supplies and Accessories
DIMENSIONS in.(cm)	1.75(4.45)H x 5.6(14.22)W x 5.75(14.6)D; 1.25 lbs, .57Kg
MOUNTING	Free standing or rack mountable; one, two or three units in 1¾"
CONNECTORS	Two piece quick release screw plug connector per input and and outputs.
POWER SUPPLIES	
WA100-1	Wall mount power supply (UL), 24VDC @ .4amp, 115 VAC/60Hz.
WA100-2	Wall mount power supply or Table top power supply with IEC 320 Male 3 pin AC input connector, 24VDC @ .4amp, 230VAC/50Hz
PH48-1	48VDC phantom power option
RACK MOUNT KITS	20604-501 Center mount for single unit 20604-502 Side-by-side mount for two units 20604-503 Side-by-side mount for three units
DESK MOUNT KITS	20617-501 Angled Desk Mount Base. 20617-502 Angled Desk Mount Base and One Stacker(2 units high). 20617-503 Angled Desk Mount Base and Two Stackers(3 units high). 20617-504 Stacker (2 units high) 20604-504 Horizontal Joiner (2 units side-by-side)
FIELD ACCESSORIES	
PROK-1	Unit protection kit which consists of a set of side plates with attached side brackets. The side plates protect the front panel controls and the rear XLR connectors from impact damage, and for attachment to carry strap (not included); the slide brackets provide ease of access and exchange of the power assemblies i.e. PPA, DCA, or BBU.
REMOTE POWER PACKS	
PPA-1	Integrated power pack assembly for remote operation which mounts to a mixer. Includes housing, rechargeable gel-cell battery pack (four hours operation), and an external battery charger operating at 115VAC/60Hz.
PPA-2	Same as above except battery charger operating at 230VAC/50Hz. Europlug. Contact factory for other plug configurations.
PPA-B	Extra rechargeable battery pack, charger not included.
DCA100-1	Integrated DC/DC assembly which mounts to a mixer and accepts external battery power with DC inputs from 10 to 32 volts to produce 24VDC at 200mA maximum.
BBU100-1	Battery Pack houses four 9V alkaline or lithium batteries (not included) for remote operation or back-up power.
WARRANTY	Limited, One Year Warranty