

NANOAMP™ Compact Mic Distribution Amplifier

DMA103

The **DMA103** is a 1X3 Audio Distribution Amplifier that accepts a microphone level input signal and provides either line or microphone level outputs to drive three isolated balanced or unbalanced lines. Phantom microphone power is provided and all audio connections are made using XLR type connectors.

The **DMA103** provides up to 80dB gain and contains internal DIP switch settings for mics of various sensitivities. The Master Gain Control lets you set overall level, and individual output trimmers let you vary each channel's output level to match the equipment you are feeding. 20VDC switchable Phantom Power is included, and 48VDC is optional.

The **DMA103** is a compact, 1/3 rack wide unit and is supplied for desktop mounting. Up to three DMA103 units can be securely mounted side-by-side in a 1RU space using our optional 21075-501 Rack Shelf. Various stacking and portable options are available.

- One microphone input to three servo-balanced line outputs
- DIP switch sensitivity selection
- Phantom power
- Master Gain Control
- Independent output level trimmers
- Line or mic level outputs
- XLR input and outputs
- Includes external 24VDC Power Supply
- Battery options available
- Rack mount and stacking options available



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Technical Specifications

OUTPUT LEVEL	+22dBm Max., +4dBm Nominal into 600 ohm balanced or unbalanced lines
FREQUENCY RESPONSE	+/- .25dB 20Hz to 20kHz
DISTORTION	.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 gain selection at 16, 30 or 40dB maximum.
PHANTOM POWER	+20VDC regulated; optional 48VDC available, specify P/N PH48-1
POWER	22 to 30VDC, 24VDC Nominal @ 100mA via WA100-1 external supply (included) See Power Supplies and Accessories for other options
DIMENSIONS in. (cm)	1.75 (4.5) H x 5.6 (14.22) W x 5.75(14.6) D
SHIPPING WEIGHT	3 pounds (1.4kg)
MOUNTING	Free standing, stacked or rack mountable; one, two or three units in 1RU
CONNECTORS	Input: XLR Female; Outputs: XLR Male
POWER SUPPLIES	
WA100-1	Wall mount power supply (UL), 24VDC @ .4amp, 115 VAC/60Hz (standard)
WA100-2	Wall mount power supply (UL & CE) with universal AC input connectors, 24VDC @ .4amp, 230VAC/50Hz (optional exchange)
PH48-1	48VDC phantom power (optional)
RACK MOUNT KITS	21075-501 19 inch Rack Mount Shelf Assembly 21097-501 1/3 RU Filler Panel
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) 20604-505 Horizontal Joiner (connects 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 provide attachment to carry strap (not included); the slide brackets provide ease of access and exchange of the Remote Power Pack assemblies shown below.
REMOTE POWER PACKS	
PPA-1	Integrated power pack assembly for remote operation; mounts to bottom of DMA103. Includes housing, rechargeable gel-cell battery pack (four hours operation), and an external battery charger operating from 115VAC/60Hz.
PPA-2	Same as above except battery charger operating from 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 DMA103 and accepts external battery power with DC inputs from 10 to 32 volts to produce 24VDC at 200mA maximum
BBU100-1	Battery Pack holds four 9V alkaline or lithium batteries (not included) for remote operation or back-up power
WARRANTY	Limited, One Year Warranty