RCF

DMA 504
FOUR CHANNELS MATRIX AMPLIFIER

DESCRIPTION

DMA 504 is a four-channel Class-D matrix amplifier providing 4 power outputs of 500 Watts each. Equipped with a powerful DSP platform, inputs and outputs can be managed in terms of routing and equalization. The complete set of processing functions includes PEQ, FIR filters, bass enhancement, limiters, compressors, and environmental equalization. Presets for RCF speakers are available on each channel for optimal acoustic performance and reliability. It can distribute 4 audio channels to other units through an analog audio BUS, combining a flexible and scalable multi-room architecture with an easy connection and installation. Configuration is simple and user-friendly and can be carried out through either the front panel controls (with OLED display) or RDNet. Thanks to its installation flexibility, accurate design, and robustness, DMA 504 is ideal for a wide range of business music and installed sound applications.

FEATURES

- 4 x 500 W Class-D power amplifier
- 20 ÷ 20000 Hz frequency range
- Full on-board processing
- RCF speakers' presets
- Proprietary bass enhancer algorithm
- FiRPHASE linear phase filters
- Flexible and scalable multi-room architecture
- RDNet for networked management
- Remote controls and paging console accessories

RCF

TECHNICAL SPECIFICATIONS

Amplifier specifications	Amplifier Class:	D
	Output power:	4 x 700 W @ 2.7 ohm
		4 x 500 W @ 4 ohm
		4 x 300 W @ 8 ohm
		2 x 1100 W @ 4 ohm (bridge)
		2 x 1000 W @ 8 ohm (bridge)
	Output power @ 70 V:	2 x 1000 W @ 70 V
	Frequency Response (-3dB):	20 Hz ÷ 20000 Hz
	Distortion (THD+N) @ 1 kHz nominal power:	<0.05 %
Input section	Total number of inputs:	5
	Balanced:	2
	Unbalanced:	3
	Mono:	2
	Stereo:	3
	Line inputs:	3
	Mic+Line inputs:	1
	VOX:	Yes
	Paging inputs:	1
	Paging command:	Contact
	General Purpose Inputs (GPI):	1
Output section	Signal output number:	1
Processing	DSP:	Yes
	EQ Filters:	Yes
	FIR:	Yes
	Compressors:	Yes
	Tone controls:	Yes
	High-pass filter:	80 Hz ÷ 200 Hz
Configuration and control	RCF speakers presets:	Yes
Protections	Cooling:	Forced
	Short circuit:	Yes
	Thermal:	Yes
	DC:	Yes
	Fuses:	Yes
	VHF (Very High Frequencies):	Yes
Power requirement	Operating voltage:	90-240 V~ 50/60Hz
	Power consumption:	800 W
Physical specifications	Cabinet/Case Material:	Metal
	Color:	Black
	Rack mounting:	19″, 2U

Size	Height:	96 mm / 3.78 inches
	Width:	430 mm / 16.93 inches
	Depth:	360 mm / 14.17 inches
	Weight:	6.2 kg / 13.67 lbs

Shipping information	Package Height:	210 mm / 8.27 inches
	Package Width:	550 mm / 21.65 inches
	Package Depth:	470 mm / 18.5 inches
	Package Weight:	7.6 kg / 16.76 lbs

PART NUMBER

- **12100049**
  DMA 504 UK
  UK
  EAN 8024530020378

- **12100048**
  DMA 504 US
  US
  EAN 8024530020361

- **12100035**
  DMA 504
  EU
  EAN 8024530018764

DRAWINGS

Front view

86 mm [3.4"]
96 mm [3.8"]
430 mm [16.9"]

Rear view

Top view

360 mm [14.2"]

Side view

ACCESSORIES

ACCESSORY BT BOARD DMA	PART NUMBER	**12399065**
	EAN:	8024530018788
ACCESSORY RC 401 EU B	PART NUMBER	**12399051**
	EAN:	8024530017217
ACCESSORY RC 401 EU W	PART NUMBER	**12399052**
	EAN:	8024530017224
ACCESSORY RC 401 US B	PART NUMBER	**12399053**
	EAN:	8024530017231
ACCESSORY RC 401 US W	PART NUMBER	**12399054**
	EAN:	8024530017248
ACCESSORY RDNET BOARD DMA	PART NUMBER	**12399048**
	EAN:	8024530017750
MIC CONSOLE BM 404	PART NUMBER	**14322031**
	EAN:	8024530017903
RACK ACCESSORY AR 1050	PART NUMBER	**17360039**
	EAN:	8024530016180

A&E SPECIFICATIONS

The product shall be a four-channel class-D matrix amplifier, equipped with a powerful DSP platform, allowing managing inputs and outputs in terms of routing and equalization. It shall offer output power both four-channels x 500 W RMS @ 4 ohm (each) or two-channels 1000 W Hi-Z line. It shall be suitable for both desktop or rack installation. It shall have 2 stereo LINE audio inputs on RCA connectors, 1 MIC+LINE balanced audio input on removable screw terminals and a LINE audio output with a switchable low-pass filter useful for the connection to an active subwoofer. A dedicated input having RJ 45 connector allows the connection of up to four dedicated paging microphones (interlocked one another on a single chain). A wall-mount remote control can be linked to each output channel in order to adjust its respective volume level and select the desired audio input. Up to 4 audio channels can be sent to additional amplifiers (through a BUS with a single CAT5 cable), combining a flexible and scalable multi-room architecture with an easy connection and installation. Its configuration shall be user friendly and carried out through either its front panel controls (with OLED display) or RDNet (when dedicated optional board is installed). The matrix amplifier can be installed into a 19" rack cabinet.