

# **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

Rev. D Last update: 05/12/2023



## **TECHNICAL SPECIFICATIONS**

power @ 70 V: ncy Response (-3dB): on (THD+N) @ 1 kHz nominal power: imber of inputs: d: nced: uts: e inputs: command:	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) 2 x 1000 W @ 70 V 20 Hz ÷ 20000 Hz <0.05 %  5 2 3 2 3 1 Yes
ncy Response (-3dB): on (THD+N) @ 1 kHz nominal power: imber of inputs: d: nced: uts: e inputs:	2 x 1000 W @ 70 V 20 Hz ÷ 20000 Hz <0.05 %  5 2 3 2 3 1
ncy Response (-3dB): on (THD+N) @ 1 kHz nominal power: imber of inputs: d: nced: uts: e inputs:	20 Hz ÷ 20000 Hz <0.05 %  5 2 3 2 3 1
on (THD+N) @ 1 kHz nominal power:  Imber of inputs: d: nced: uts: e inputs:	<0.05 %  5 2 3 2 3 3 1
umber of inputs: d: nced: uts: e inputs:	5 2 3 2 3 3 3
d: nced: uts: e inputs:	2 3 2 3 3 1
uts: e inputs:	3 2 3 3 1
uts: e inputs: inputs:	2 3 3 1
e inputs:	3 3 1
e inputs:	3 1
e inputs:	1
inputs:	·
inputs:	Yes
	1
	Contact
Purpose Inputs (GPI):	1
utput number:	1
	Yes
rs:	Yes
	Yes
essors:	Yes
ntrols:	Yes
ss filter:	80 Hz ÷ 200 Hz
eakers presets:	Yes
:	Forced
rcuit:	Yes
l:	Yes
	Yes
	Yes
ery High Frequencies):	Yes
	90-240 V~ 50/60Hz
ng voltage:	800 W
	Metal
consumption:	Metal Black
	ing voltage: consumption:

# DATASHEET



 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 · 12100048 · 12100035

DMA 504 UK DMA 504 US DMA 504

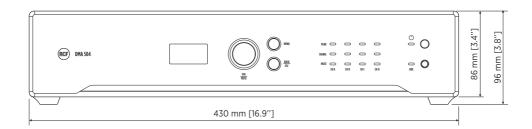
UK US EU

EAN 8024530020378 EAN 8024530020361 EAN 8024530018764

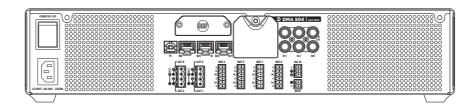


#### **DRAWINGS**

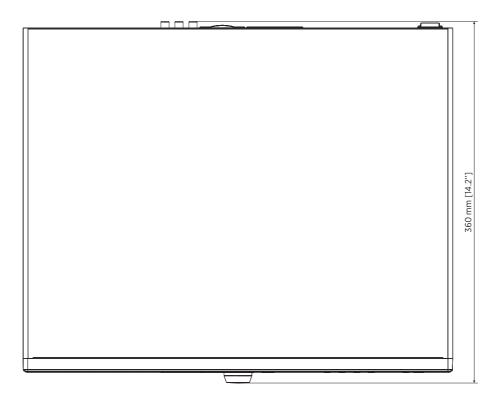
Front view



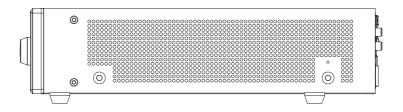
Rear view



Top view



Side view





## **ACCESSORIES**

	ACCESSORY BT BOARD DMA	PART NUMBER EAN:	<b>12399065</b> 8024530018788
<b>⊕</b>	ACCESSORY RC 401 EU B	PART NUMBER EAN:	<b>12399051</b> 8024530017217
<b>⊗</b>	ACCESSORY RC 401 EU W	PART NUMBER EAN:	<b>12399052</b> 8024530017224
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(). 11 2 2	ACCESSORY RC 401 US W	PART NUMBER EAN:	<b>12399054</b> 8024530017248
	ACCESSORY RDNET BOARD DMA	PART NUMBER EAN:	<b>12399048</b> 8024530017750
	MIC CONSOLE BM 404	PART NUMBER EAN:	<b>14322031</b> 8024530017903
	RACK ACCESSORY AR 1050	PART NUMBER EAN:	<b>17360039</b> 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.