RCF

DMA 82
TWO CHANNELS MATRIX AMPLIFIER

DESCRIPTION

DMA 82 is a two-channel class-D matrix amplifiers equipped with a powerful DSP platform, allowing managing inputs and outputs in terms of routing and equalization (a complete set of processing functions is available, including PEQ, FIR filters, bass enhancement, limiters, compressors and environmental equalization); moreover, dedicated presets for RCF speakers have been implemented to optimize their acoustic performance. It can distribute 4 audio channels to DMA 162P units through an analogue audio BUS, combining a flexible and scalable multi-room architecture with an easy connection and installation. Its configuration is simple and user friendly and can be carried out through either its front panel controls (with OLED display) or RDNet. Thanks to its installation flexibility, accurate design, and robustness, it is ideal for a wide range of business music and installed sound applications.

FEATURES

- 2 x 80 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
- Suitable for desktop or rack installation
- RDNet ready for networked management
- Remote controls and paging console accessories

TECHNICAL SPECIFICATIONS

Amplifier specifications	Amplifier Class	D
	Output Power	2 x 80 W @ 4 ohm 2 x 80 W @ 8 ohm 1 x 160 W @ 4 ohm (bridge) 1 x 160 W @ 8 ohm (bridge)
	Output power @ 70 V	1 x 160 W @ 70 V
	Frequency Response (-3dB)	20 Hz ÷ 20000 Hz
	Distortion (THD+N) @ 1 kHz nominal power	<0.01 %
Input section	Total number of inputs	5
	Balanced	2
	Unbalanced	3
	Mono	2
	Stereo	3
	VOX	Yes
	Line inputs	3
	Line connectors	JACK, Picoflex, RCA
	Mic+Line inputs	1
	Mic+Line connectors	Euroblock
	VOX	Yes
	Paging inputs	1
	Paging connectors	RJ45
	Paging command	Contact
	General Purpose Inputs (GPI)	1
Output section	Signal output number	1
	Signal output connectors	RCA
	Power output connectors	Euroblock
Processing	DSP	Yes
	EQ Filters	Yes
	FIR	Yes
	Compressors	Yes
	Tone controls	Yes
	High-pass filter	80 Hz ÷ 200 Hz
Configuration and control	Configuration	Front panel, PC Software
	RCF speakers presets	Yes
	Protocols for system integration	Proprietary
	RDNet	Yes
Protections	Cooling	Forced
	Short circuit	Yes
	Thermal	Yes
	DC	Yes
	Fuses	Yes
	VHF (Very High Frequencies)	Yes

RCF

Power requirement	Operating voltage	90-240 V~ 50/60Hz
	Power consumption	200 W

Standard compliance	Safety agency	CE compliant, UL 62368-1

Physical specifications	Color	Black
	Rack mounting	1/2 19", 1U , Optional rack mounting accessory required

Size	Height	44 mm / 1.73 inches
	Width	213 mm / 8.39 inches
	Depth	314 mm / 12.36 inches
	Weight	1.7 kg / 3.75 lbs

Shipping information	Package Height	106 mm / 4.17 inches
	Package Width	360 mm / 14.17 inches
	Package Depth	381 mm / 15 inches
	Package Weight	2.7 kg / 5.95 lbs

PART NUMBER

- **12100043**
  DMA 82 UK
  UK
  EAN 8024530018436

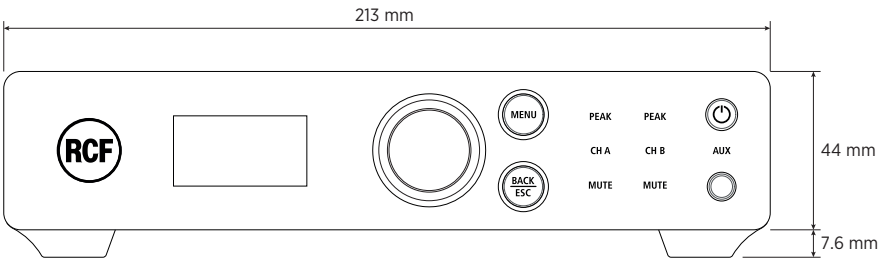- **12100040**
  DMA 82 US
  US
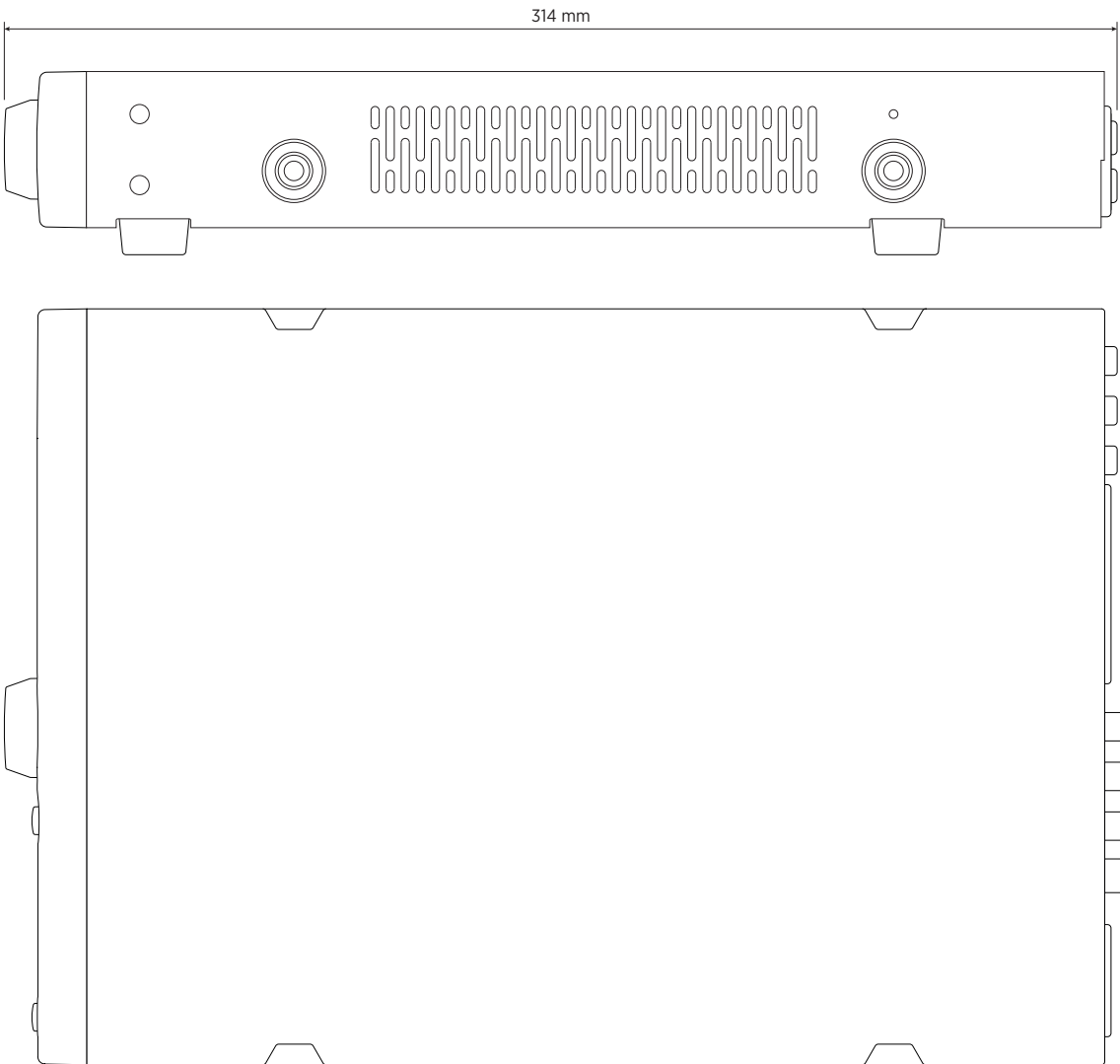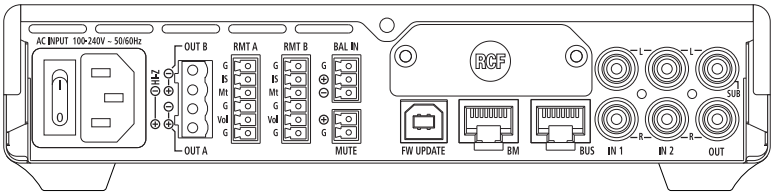 EAN 8024530018405

- **12100026**
  DMA 82 EU
  EU
  EAN 8024530017149

DRAWINGS

Front panel

213 mm

44 mm

7.6 mm

Rear panel

ACCESSORIES

	ACCESSORY BT BOARD DMA	PART NUMBER EAN:	**12399065** 8024530018788
	ACCESSORY RC 401 EU B	PART NUMBER EAN:	**12399051** 8024530017217
	ACCESSORY RC 401 EU W	PART NUMBER EAN:	**12399052** 8024530017224
	ACCESSORY RC 401 US B	PART NUMBER EAN:	**12399053** 8024530017231
	ACCESSORY RC 401 US W	PART NUMBER EAN:	**12399054** 8024530017248
	ACCESSORY RDNET BOARD DMA	PART NUMBER EAN:	**12399048** 8024530017750
	MIC CONSOLE BM 404	PART NUMBER EAN:	**14322031** 8024530017903
	RACK ACCESSORY AR 1050	PART NUMBER EAN:	**17360039** 8024530016180
	RACK MOUNT KIT RM-KIT DMA	PART NUMBER EAN:	**13360426** 8024530017415

TRANSFORMER TRF-KIT DMA 82

PART NUMBER **12399068**

EAN: 8024530020828

A&E SPECIFICATIONS

The product shall be a two-channel class-D matrix amplifier, equipped with a powerful DSP platform, allowing managing inputs and outputs in terms of routing and equalization; moreover, dedicated presets for speakers have been implemented to optimize its acoustic performance.
Output power: either 2 channels x 80 W RMS @ 4 ohm (each) or a single 160 W Hi-Z line.
It shall be suitable for either 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 through an optional accessory (required for every pair, as each needs half a rack unit).