RCF

MXR 4500/2

RACK MOUNT AMPLIFIED MASTER UNIT

DESCRIPTION

MXR 4500 is the master unit of the Voice Alarm system DXT 4000, dedicated to rack mount small and medium size applications where an EN 54-16 certified system is required. It is equipped with powerful and exceptionally reliable Class D power amplifiers, able to provide up to 500 W of total power. Depending on the model, it is able to serve up to 6 independent zones, and the spare power amplifier facility is available. The internal power supply is certified EN 54-4. The on-board DSP platform allows optimizing environmental equalization, maximizing voice intelligibility and background music performance. Up to 8 units can be connected in a MASTER-SLAVE configuration, thanks to the natively included IE 3008 additional board. The system can be completed with emergency microphone consoles BM 3804, BM 3804FM and ME 3801, and the buttons extensions BE 3806, allowing to add live announcements functionality.

FEATURES

- 500 W total power
- Up to 2 zones controlled
- On-board DSP platform
- Certified EN 54-16 and EN 54-4
- Emergency messages on monitored SD card
- Spare power amplifier facility
- Integrated audio source on front panel
- Rack mount installation (4U)
- Up to 8 units connectable in a master-slave configuration

TECHNICAL SPECIFICATIONS

System specifications	Number of zones managed:	2
	Built-in power amplifier:	Yes
	Spare amplifier automatic change-over:	Yes
	Max number of consoles:	4
	Number of console buses:	1
	Number of simultaneous emergency audio channels:	1
	Max number of units connectable:	8
	Communication bus:	Serial
	Connection Cables:	J-Type fire-rated
	Integrated pre-recorded emergency messages:	Yes

Amplifier specifications	Amplifier Class:	D+
	Number of channels:	2
	Power output (@ 100 V):	500 W RMS
	A/B speakers line:	Yes
	Frequency Response (-3dB):	80 Hz ÷ 16 kHz
	Signal/noise rate ("A" weighted)	>98 dB
	Distortion (THD+N) @ 1 kHz nominal power:	<0.3 %

Input section	Total number of inputs:	3
	Balanced:	3
	Mono:	3
	Line inputs:	2
	Line connectors:	Euroblock, JACK
	VOX:	Yes
	Paging inputs:	1
	Paging connectors:	Euroblock
	Paging command:	Serial
	Paging emergency:	Yes
	General Purpose Inputs (GPI):	6
	Monitored GPI:	6
	Photo-coupled GPI:	6

Output section	Signal output number:	1
	Signal output connectors:	JACK
	Power output lines:	2
	Power output connectors:	Euroblock
	General Purpose Outputs (GPO):	6

Processing	DSP:	Yes
	Tone controls:	Yes
	High-pass filter:	20 Hz ÷ 500 Hz

Controls	Configuration:	DIP switch, Front panel
	Chime tone:	Yes

Protections	Cooling:	Convection
	Short circuit:	Yes
	Thermal:	Yes
	DC:	Yes
	Fuses:	Yes
	VHF (Very High Frequencies):	Yes

Audio sources	USB pen drives:	Yes
	SD card:	Yes

Power requirement	Operating voltage:	220-240/115 V~ 50/60Hz
	Voltage selection:	Internal
	DC power:	Yes
	DC power value:	48 V
	Power consumption:	700 W

Standard compliance	IP protection grade:	IP 30
	Safety agency:	CE compliant
	EN54-16 certified:	Yes
	EN54-4 certified:	Yes

Physical specifications	Color:	Black - RAL 9005
	Rack mounting:	19", 4U

Size	Height:	178 mm / 7.01 inches
	Width:	482 mm / 18.98 inches
	Depth:	426 mm / 16.77 inches
	Weight:	11.3 kg / 24.91 lbs

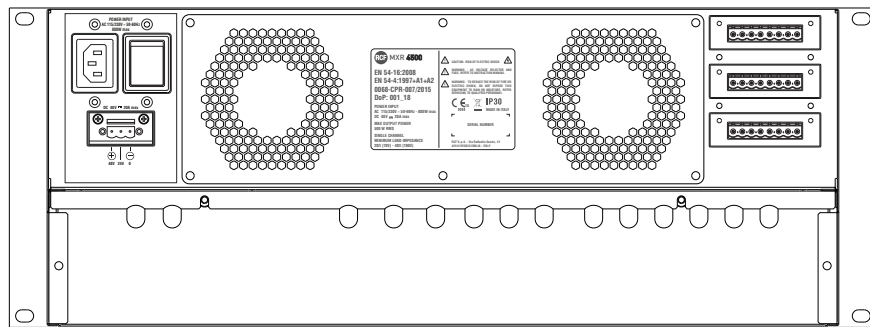| **Shipping information**	Package Height:	262 mm / 10.31 inches
	Package Width:	523 mm / 20.59 inches
	Package Depth:	523 mm / 20.59 inches
	Package Weight:	15.1 kg / 33.29 lbs

PART NUMBER
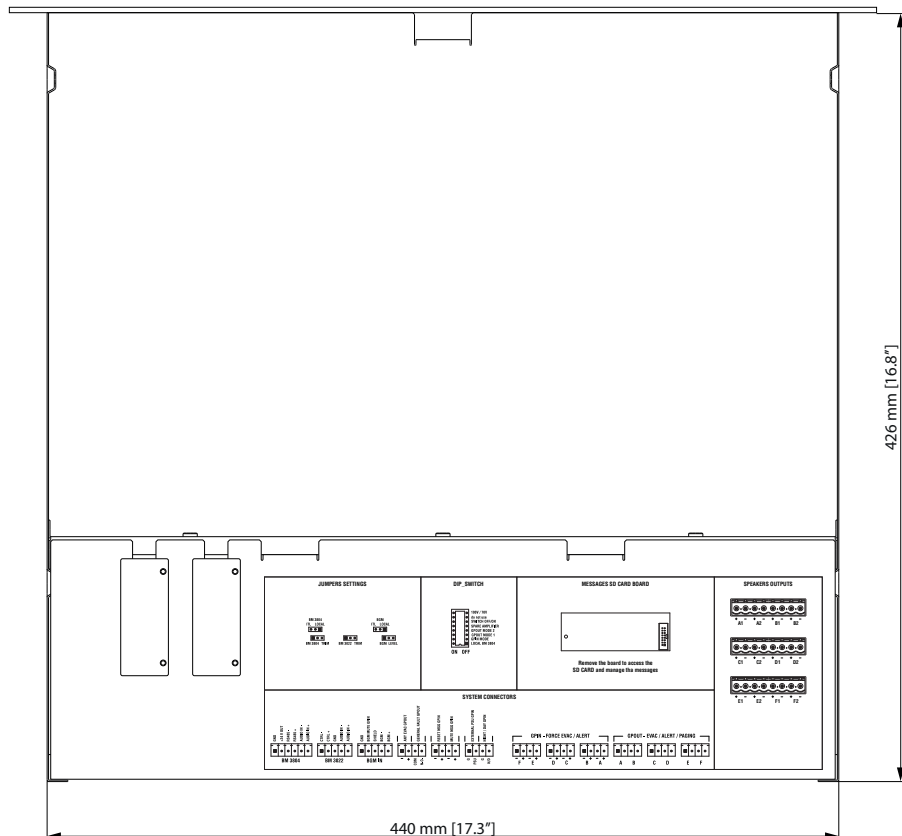
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  MXR 4500/2

  EAN 8024530021764

DRAWINGS

Front view

Rear view

Top view

DATASHEET
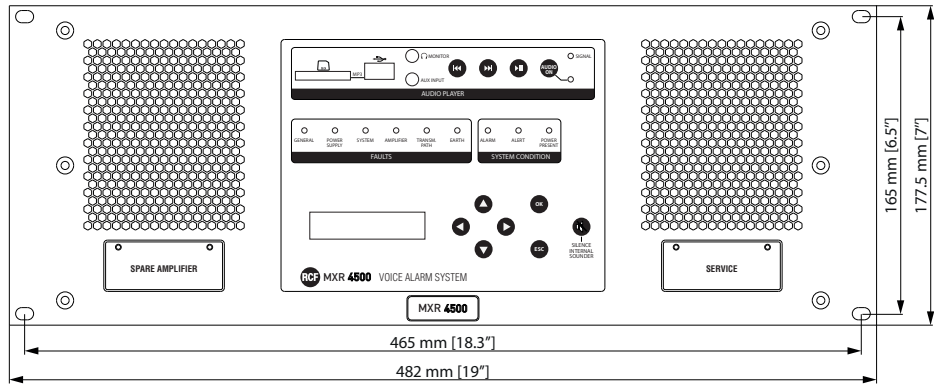
ACCESSORIES

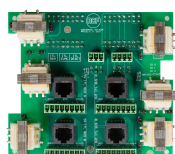|			
	BATT 18AH 2X PAIR OF BATTERIES 12V 18AH EVAC SYS	PART NUMBER EAN:	**13360317** 8024530015923
	BE 3806 ADDITIONAL KEYBOARD	PART NUMBER EAN:	**14380036** 8024530012120
	BH 1042 RACK BATTERY BRACKET	PART NUMBER EAN:	**17360040** 8024530011796
	BM 3022 PREAMPLIFIED MIC CONSOLE	PART NUMBER EAN:	**14322013** 8024530007034
	BM 3804 EMERGENCY MIC CONSOLE	PART NUMBER EAN:	**14380028** 8024530012137
	BM 3804FM FIREMEN EMERGENCY MIC CONSOLE	PART NUMBER EAN:	**14380037** 8024530012885
	CJ 428CAT CABLE FTP 4x2x22 AWG CAT 5E FR (PH120)	PART NUMBER EAN:	**12399047** 8024530016449
	EOL 3-9 END OF LINE DXT3000 - DXT9000	PART NUMBER EAN:	**17170176** 8024530011864
	IT 3010 TRANSFORMERS BOARD DXT 3000	PART NUMBER EAN:	**12399049** 8024530016388

ME 3801 EMERGENCY MICROPHONE

PART NUMBER **14322030**

EAN: 8024530015732
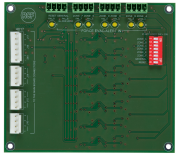
MG 3006 MONITORED GPI BOARD

PART NUMBER **13360344**

EAN: 8024530013356

A&E SPECIFICATIONS

The product shall be the master unit of the voice alarm system, dedicated to rack mount small and medium size applications where an EN 54-16 certified system is required.

It shall be equipped with powerful and exceptionally reliable 'Class D' power amplifiers, able to provide a total power up to 500 W.

Amplifier outputs shall be 100 V / 70 V (for constant voltage speaker lines).

Each zone shall have two outputs to get redundant lines.

It shall be able to serve up to 2 independent zones. Moreover, the last internal amplifier can be alternatively used as spare (with automatic change-over).

The internal power supply shall be EN 54-4 certified.

A on-board DSP allows to optimize the equalization and get the best voice intelligibility and background music performance.

The system can be completed with emergency microphone consoles, allowing to add live announcements functionality.

A simple MP3 player shall be present on its front panel, having an additional aux input for external audio sources.

Up to 8 units shall be connected in a MASTER-SLAVE configuration.