MXR 4500/6

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 6 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	6
	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	6
	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	6
	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

RCF products are continually improved. All specifications are therefore subject to change without notice.

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	14.2 kg / 31.31 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	18 kg / 39.68 lbs

PART NUMBER

- **12100069**

  MXR 4500/6

  EAN 8024530021788

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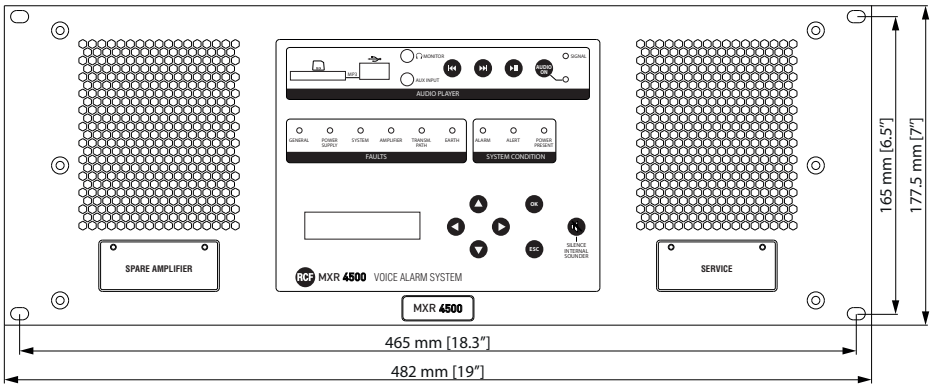
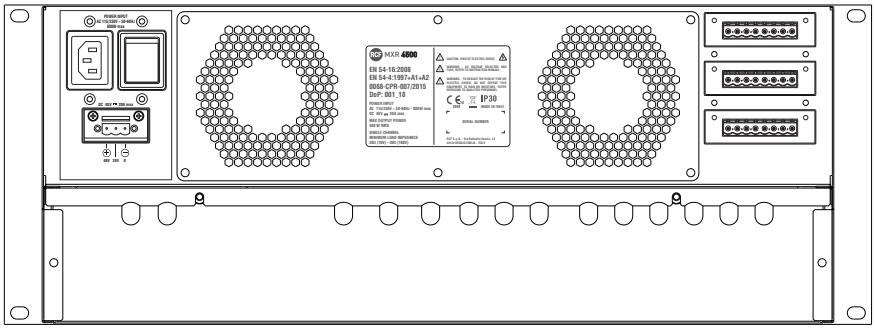
DRAWINGS

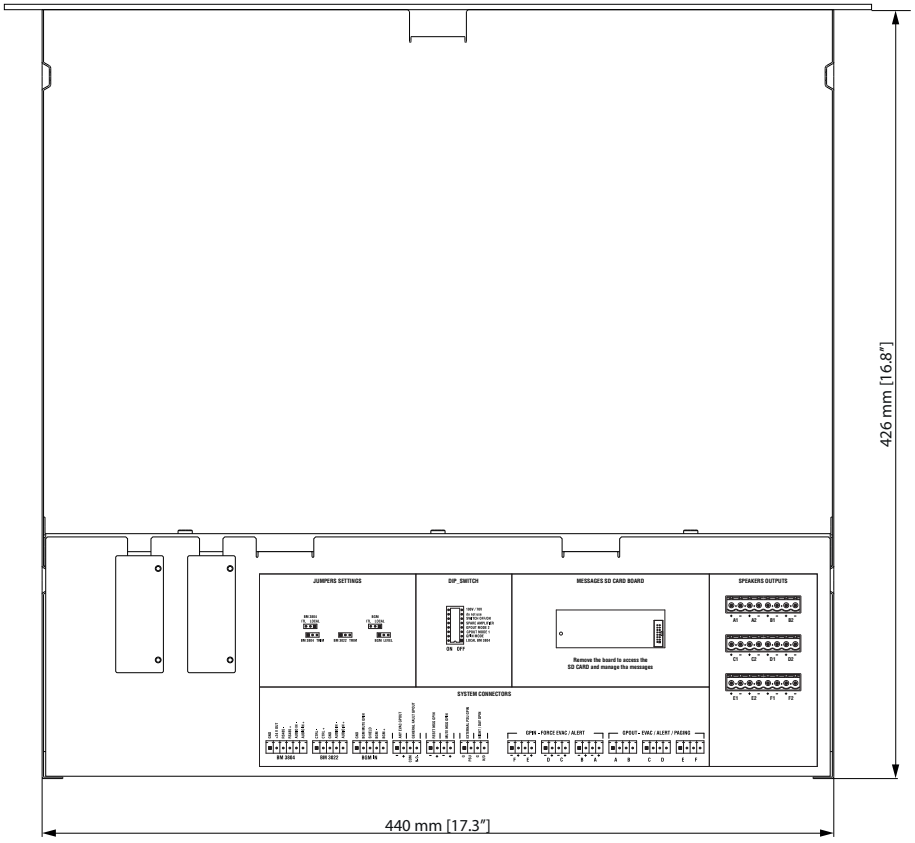
Front view



Rear view



Top view



ACCESSORIES

BATT 18AH 2X PAIR OF BATTERIES 12V 18AH EVAC SYS

PART NUMBER **13360317**
EAN: 8024530015923

BE 3806 ADDITIONAL KEYBOARD

PART NUMBER **14380036**
EAN: 8024530012120

BH 1042 RACK BATTERY BRACKET

PART NUMBER **17360040**
EAN: 8024530011796

BM 3022 PREAMPLIFIED MIC CONSOLE

PART NUMBER **14322013**
EAN: 8024530007034

BM 3804 EMERGENCY MIC CONSOLE

PART NUMBER **14380028**
EAN: 8024530012137

BM 3804FM FIREMEN EMERGENCY MIC CONSOLE

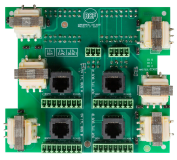
PART NUMBER **14380037**
EAN: 8024530012885

CJ 428CAT CABLE FTP 4x2x22 AWG CAT 5E FR (PH120)

PART NUMBER **12399047**
EAN: 8024530016449

EOL 3-9 END OF LINE DXT3000 - DXT9000

PART NUMBER **17170176**
EAN: 8024530011864

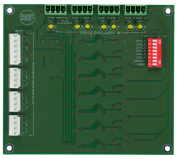


IT 3010 TRANSFORMERS BOARD DXT 3000

PART NUMBER **12399049**
EAN: 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 6 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.