ES 3080

MIXER-AMPLIFIER WITH MP3 PLAYER AND BLUETOOTH

MAIN FEATURES

- Audio source with 80W power amplifier.
- MP3 player controlled from the front panel.
- MP3 inputs: USB flash, SD card, AUX jack 3.5mm.
- Bluetooth connection with external devices.
- 2 universal inputs on removable screw-terminals and 1 AUX input.
- Configurable priority settings, VOX facility on input 1.
- Auxiliary output MUSIC ON HOLD to send the audio signal to external amplifiers or telephone switchboards.
- PRE OUT connector for additional power amplifiers.
- HI-PASS control (inputs 1 and 2).
- Auxiliary input on RCA connector and MP3 player equipped with independent tone controls (bass and treble) and gain.
- Status LEDs on the front panel (ON, PROT) giving a complete feedback on amplifier and power supply status.
- LEDs on the front panel (PRIOR) indicating the priority circuit activity and the audio signal level (SIG/PK).
- CHIME generator configurable as single or double tone.
- Rack mount kit for 2 units amplifiers included.

DESCRIPTION

ES 3080 is an 80 W mixer-amplifier with a MP3 player directly accessible on the front panel. It can read USB sticks, SD cards, has an auxiliary input port with 3.5mm jack and Bluetooth technology for the connection with external sources. Moreover, it offers 2 mic-line audio inputs on removable connectors (the first input also has an XLR socket). Input 2 also has an RJ 45 port for quick connection of an RCF BM 3001 paging microphone (through CAT5 cable). The amplifier output is available either for low impedance speakers (min. 4 Ω) or 100 – 70 V constant voltage line (for speakers having 100 – 70 V transformers). Input 1 has a signal detection circuit ('VOX') for automatic priority. Inputs 1 and 2 can access the priority through an external command (connected to either the removable connector or the RJ 45 port). The MUSIC ON HOLD output directly sends the internal MP3 player signal to additional amplifiers, mixers, phone systems ('music on hold' function), etc. The PRE OUT output sends the signal (the same routed to the internal amplifier) to additional amplifiers. The 2 mic-line inputs have a high-pass filter (with a common on/off dip-switch) that are useful to improve speech intelligibility. The internal MP3 player and the AUX INPUT have tone controls (common for both). Front panel LEDs indicate the device state (ON, PROT), priority circuit enabled (PRIOR) and the signal level / peak (SIG/PK).

MAIN APPLICATIONS

- Restaurants
- Boutiques
- Pubs
- Beauty Centres
- Markets
- Hotels
- Office buildings
- Medical centres
- Swimming pools

SPECIFICATIONS

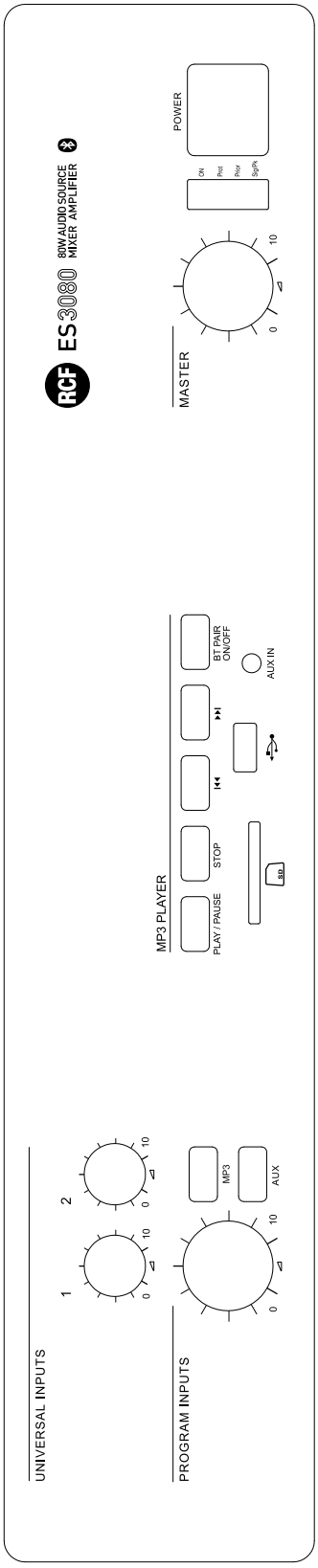
AMPLIFIER	
Output (RMS) power	80 W
Frequency response	50 Hz ÷ 16 kHz
Signal / noise ratio	
- Inputs 1, 2	60 dB
- AUX INPUT (rear panel)	80 dB
Distortion (at 1 kHz, nominal power)	< 0.3 %
MP3 / AUX INPUT tone controls	
- Bass	– 9 ÷ + 6 dB @ 100 Hz
- Treble	– 14 ÷ + 8 dB @ 10 kHz
High-pass filter (inputs 1, 2)	150 Hz
Input sensitivity / impedance	
- Inputs 1–2, MIC	Balanced, – 62 dBu (max. – 25 dBu) / 10 kΩ
- Inputs 1–2, LINE	Balanced, – 29 dBu (max. 0 dBu) / 10 kΩ
- AUX INPUT (rear panel)	Adjustable – 18 ÷ + 20 dBu / 20 kΩ
'Phantom power' voltage / current	30 V / 18 mA
Speaker outputs	
- Low impedance	4 Ω
- Constant voltage	70 V (63 Ω) / 100 V (125 Ω)

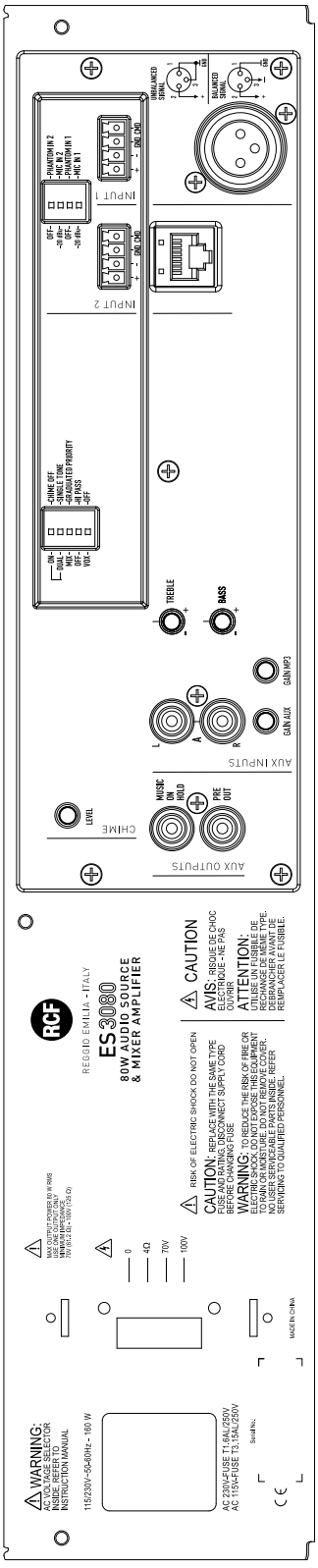
PROTECTIONS	
Amplifier	Overload, short circuit, thermal
Power supply	fuses

GENERIC	
Operating voltage	115-230V / 50-60 Hz
Power (consumption)	160 W
Dimensions (w, h, d)	442 mm, 88 mm, 230 mm (2U 19" rack)
Net weight	3.9 Kg

ES 3080

FRONT PANEL & REAR PANEL

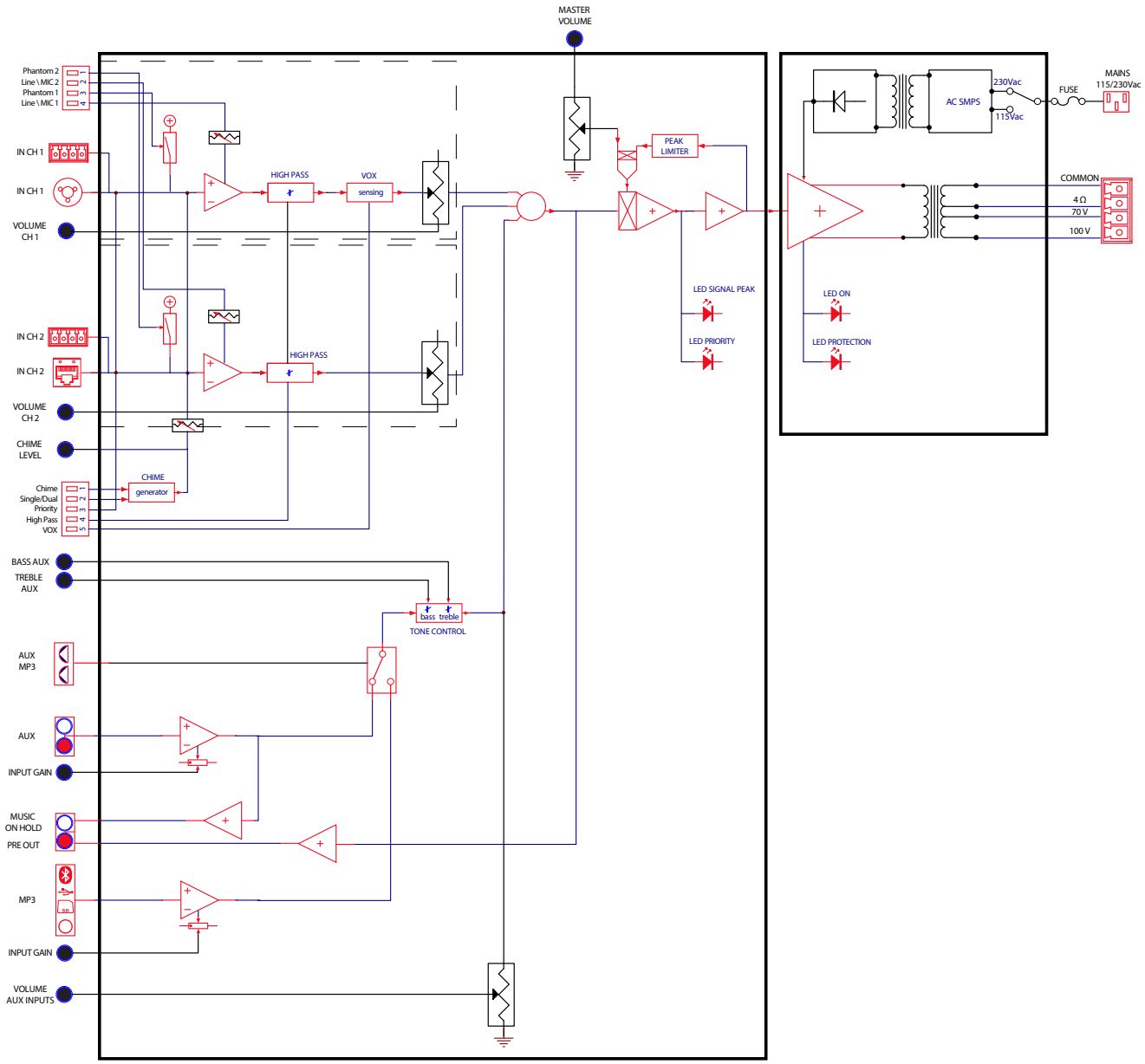




RCF

ES 3080

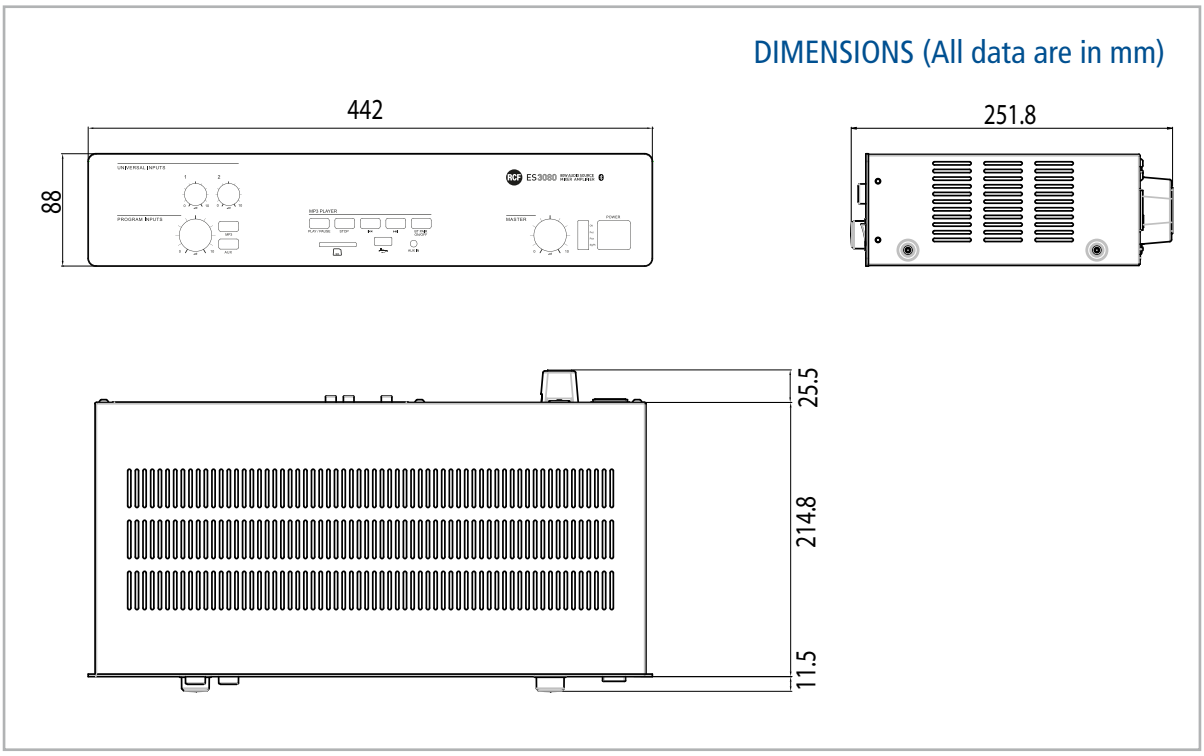
SCHEMATICS



ES 3080

PART NUMBERS

12135107



INSTALLATION NOTES

ES 3080 has 4 footpads for desk-top positioning. To ensure proper heat dissipation, leave 0.1 m (4”) clearances between the amplifier and walls or other components.
ES 3080 can be mounted into a 19” rack cabinet (2 units each) through the included rack ears. In this case, it is necessary to add 2 P/AER-1V (1 unit) panels (one above and one below the amplifier) to ensure proper air circulation and heat dissipation.

ACCESSORIES (included)

- 2 audio input 4-pole removable connectors
- 1 amplifier output 4-pole removable connector
- Safety protection cover for amplifier outputs
- Rack ears with screws
- AC power cord

ACCESSORIES (not included)

- AR 3000 rack mounting support 3 units (code 133 60 101 Optional)
- BM 3001 microphone console with CAT5 cable and RJ 45 connector (code 143 22 008 Optional)

CERTIFICATIONS AND APPROVALS

- CE: it complies with European Community 2006/95/CE LVD and 2004/108/CE EMC
- Electromagnetic immunity according to IEC EN 55013+A1+A2, IEC EN 55020+A2+EC, EN 61000-3-2, EN 61000-3-3+A1
- Electronic apparatus safety requirements according to IEC EN 60065:2002
- Bluetooth Qualification Process

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