

ES 3323

3 ZONE CD-USB/MP3 DIGITAL RECEIVER AMPLIFIER



DESCRIPTION

ES 3323 is a mixer-amplifier with 4 mic-line audio inputs, CD/USB – MP3 player and tuner and an aux input for an additional external music source. The amplifier nominal power is 320 W can be share between the 3 zones speakers, the ES 3323 is able to control the independent activation of announcements and musical program and control separately the sound level of the 3 zone. The 3 zone output and the direct output are available at 100 V – 70 V for constant voltage line. All four inputs can access the priority through an external command, have a common 'presence' control and separate high-pass filters that are useful for improving speech intelligibility. Inputs 2 and 3 also have an RJ 45 socket for quick connection of an BM 3001 and BM 3003 paging microphone. The BM 3001 send the announcement in all the zone, the BM 3003 allow to select the zone to send the announcement. The BM 3003 could be connect in a single unit or a line (daisy-chain) of BM 3003 (max. 12, by using an additional power supply unit). The paging buttons on the front panel can be used to select zones to be paged by either the channel 1 or 4. The music buttons turn the music on in the respective zones. Aux outputs are available to send the internal / external music source signals to additional amplifiers, mixers, phone systems, etc. As system expansion, it is possible to link a second generic external amplifier to keep the background music in the zones that are not paged. Through a screw terminal connector is possible control the master volume and the music volume from a remote area, also the selection of the music source is a remote control available.

CERTIFICATIONS AND APPROVALS

- CE comply with European Community 2006/95/CE LVD Directive and 2004/108/CE EMC
- Directive Immunity according to IEC EN 55013+A1+A2, IEC EN 55020+A2+EC, EN 61000-3-2, EN 61000-3-3+A1
- Safety according to IEC EN 60065:2002

INSTALLATION NOTES

The ES 3323 is supply with 4 footpad that allow to place the unit on a table. In case the ES 3323 will be assemble in a cabinet use the rack support AR 3000 and to ensure proper heat dissipation, install the unit while leaving clearances between the units and wall or other components, in case of rack mounting use two rack units, one above and one below the amplifier, for the installation of two panels P AER1, in order to ensure proper air circulation.

MAIN FEATURES

- CD-USB/MP3 Player / FM tuner / Mixer Amplifier
- IR Remote control for CD - USB/MP3 player & tuner functions
- Full digital technology amplifier 320 W RMS, 100V-70V
- Low impedance (min. 4 Ω) 2 W output for a monitor loudspeaker is available
- 4 universal inputs with phantom facility, Presence Control and per-channel High-Pass filters
- RJ45 connectors on input 2 and 3 for connection to BM3001 and BM 3003 microphone
- Screw terminal connections, additional XLR and RJ45 input connections available
- Configurable Priority settings, VOX facility on input 1
- Selectable aux input for music source with volume and tone controls
- USB port on front panel allows reproduction of MP3 files from a memory stick
- Music On Hold and PRE outputs
- The 3 PAGING buttons to select zones to be paged by either the channel 1 or 4
- GENERAL call button is available
- The 3 MUSIC buttons turn the music on in the respective zones
- Digital Chime and Siren built-in generator, activation through dry contact
- Status / Priority / Audio Level LED indications
- Link to a external amplifier (i.e. RCF UP 2321) to keep the music in the zones that are not paged

MAIN APPLICATIONS

- Restaurants • Boutique • Pub • Beauty Centre • Market • Hotels
- Office building • Medical centres

ACCESSORIES (included)

- 4 Male Audio Input connector 4 pole
- 1 Male Command Input connector 2 pole
- 1 Male Relay Input connector 3 pole
- 1 Male Remote Control Input connector 4 pole
- 1 Male output connector 4 pole
- 1 FM indoor antenna
- Safety protection cover for 100 V output connector
- Remote control unit
- CR 2025 (3 V) lithium battery
- AC Power cord
- User's Guide
- Quick Start Instruction
- Warranty Card

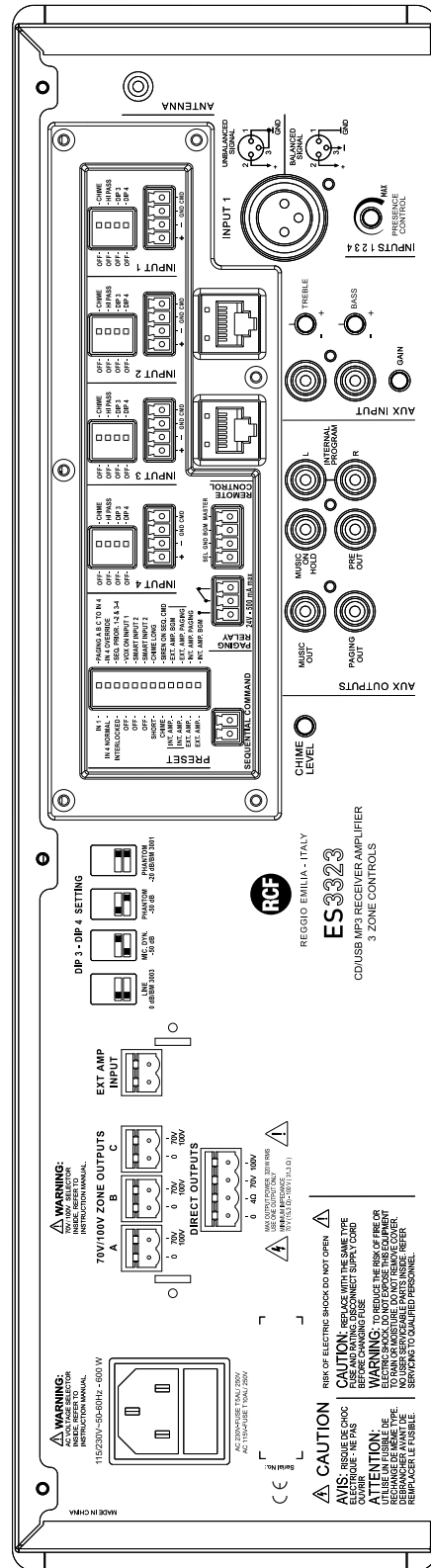
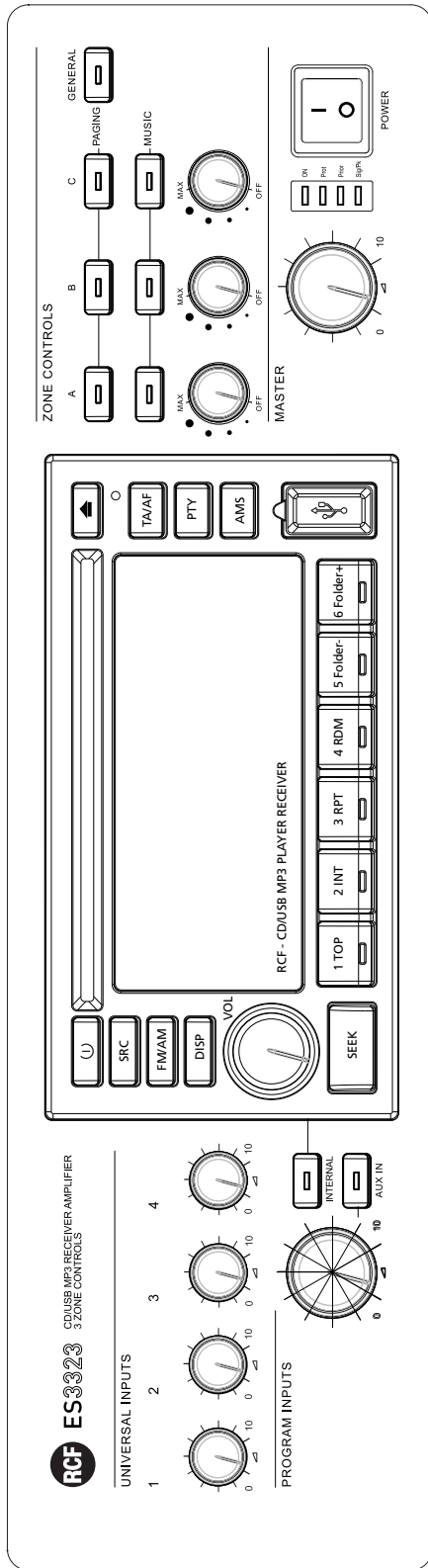
ACCESSORIES (not included)

- AR 3000 rack mounting support 3 units (code 133 60 101 Optional)
- BM 3001 microphone paging with CAT5 cable and RJ 45 connector (code 143 22 008 Optional)
- BM 3003 microphone paging with CAT5 cable and RJ 45 connector (code 143 22 012 Optional)

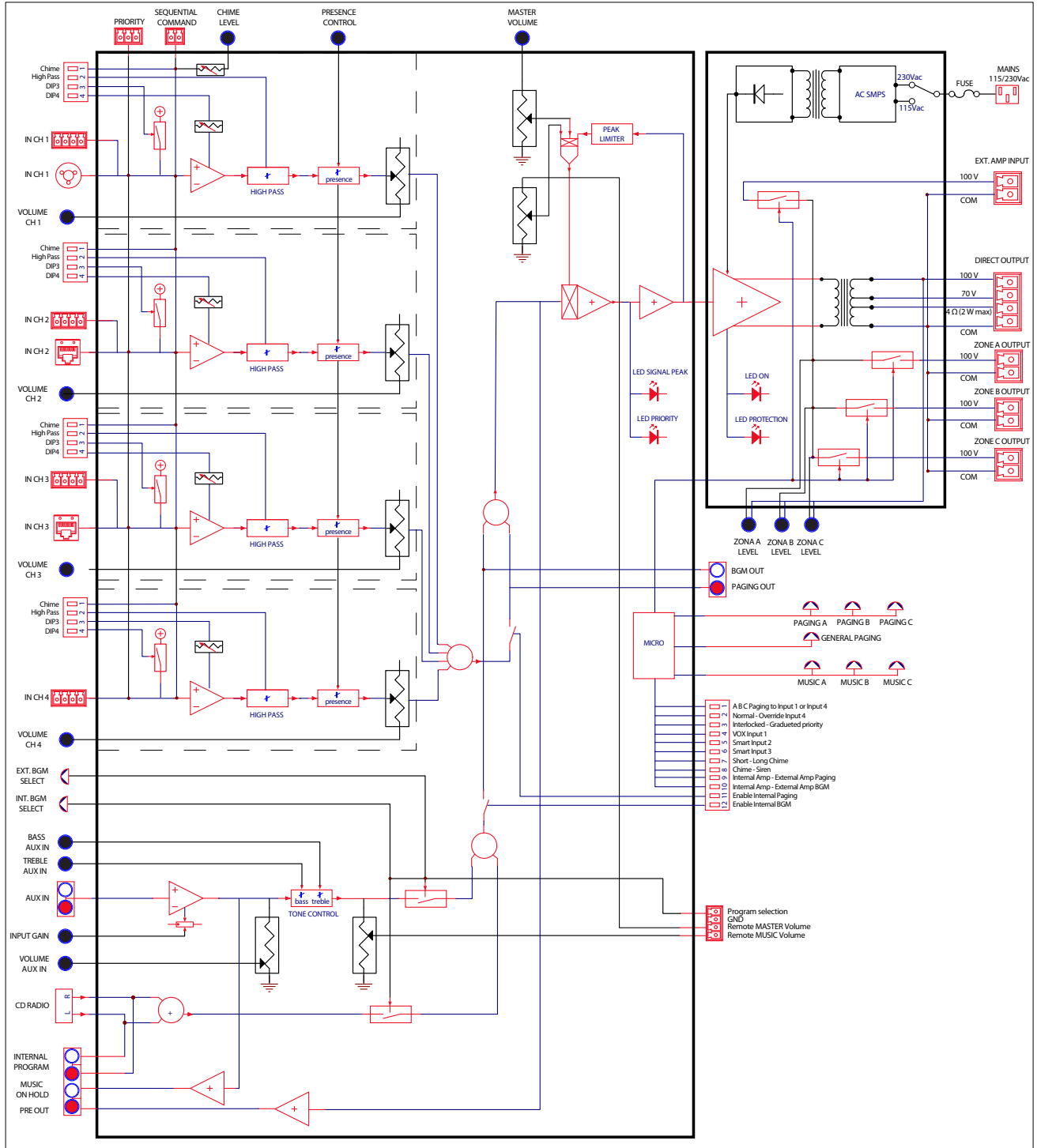


ES 3323

FRONT PANEL & REAR PANEL



SCHEMATICS

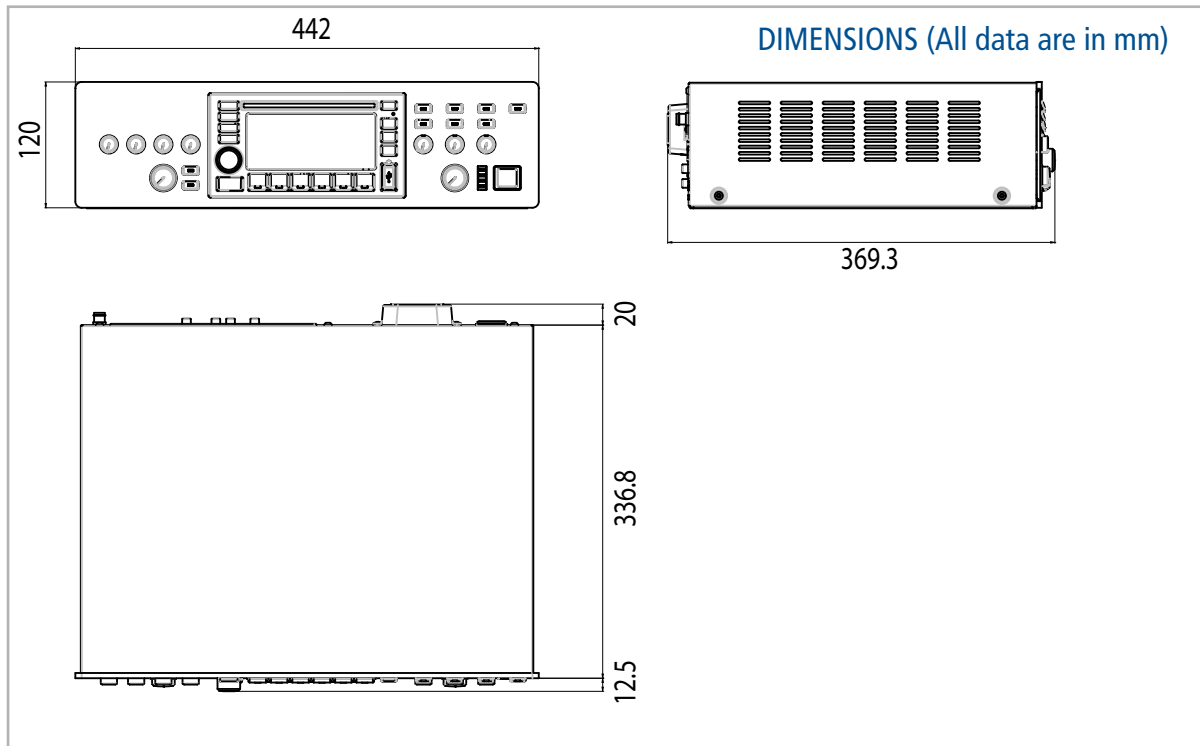


ES 3323

PART NUMBERS

12135064

1.0-F



SPECIFICATIONS

AMPLIFIER

| | |
|---------------------------------------|---|
| Output power | 320 W RMS |
| Frequency response (± 3 dB) | 70 Hz \div 13.5 kHz |
| Frequency response (± 6 dB) | 30 Hz \div 20 kHz |
| Signal / noise ratio Mic (1 \div 4) | 65 dB |
| Signal / noise ratio Aux | < 0,3 % (at 1 kHz, nominal power) |
| AUX Input tone controls | ± 8 dB @ 80 Hz (bass); ± 8 dB @ 13 kHz |
| Main Input presence control | + 9.5 dB @ 2,2 kHz |
| Main input High-pass filter | 150 Hz |
| Input Sensitivity (balanced) | - 56 dBu (max - 25 dBu) Low level Micro - 26 dBu (max 0 dBu) Low level Line - 7 dBu (max + 19 dBu) High level |
| AUX Input Sensitivity | Adjustable - 11 \div + 10 dBu (max +24 dBu) |
| Input Impedance | 10 k Ω (Main Input); 20 k Ω (Aux Input); |
| Phantom power | 32 V / 18 mA |
| AUX Output level | 0 dBu / 600 Ω |
| Loudspeaker Outputs min. | 4 Ω (Low impedance) max 2 W 70 V (16 Ω)/100 V (31 Ω) |
| Protections Amplifier | Overload, Short circuit, Thermal |
| Protections Power supply | Fuses (T5AL - 250 V ;T10AL - 250 V) |
| Operating voltage | 220 \div 240 / 110 \div 120 V ~ 50 / 60 Hz |
| Power (consumption) | 600 W |
| Dimensions (WxHxD) | 444 x 127 x 345 mm |
| Net weight | 10.1 kg |
| Operating temperature | -25° to +55° |
| Relative humidity | 90% non condensing |

RADIO TUNER

| | |
|-------------------------------|-----------------------|
| FM range | 87.5 \div 108 MHz |
| FM frequency response | 30 Hz \div 15 kHz |
| FM channel separation (1 kHz) | ≥ 30 dB |
| FM Intermediate rejection | ≥ 70 dB |
| FM Image rejection | ≥ 50 dB |
| FM signal / noise ratio | ≥ 55 dB |
| Antenna input | 75 Ω - Coaxial |

AUDIO CD PLAYER

| | |
|-----------------------------------|---------------------|
| Frequency response | 20 Hz \div 20 kHz |
| Signal / noise ratio | ≥ 86 dB |
| Total harmonic distortion (1 kHz) | < 0.2 % |
| Channel separation | ≥ 60 dB |

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