

BA1040

DIGITAL CONTROLLED
PUBLIC ADDRESS SYSTEM



the rules of sound

RCF

SOUND SYSTEMS BA1040

The BA 1040 is RCF'S solution for many of the smaller PA systems where the basic requirement is for voice announcements, background music and PABX PA paging access. The BA 1040 provides all of these functions making installation extremely simple whilst giving the contractor and the end user additional flexibility and ease in system set-up and use. The BA 1040 system is composed of two devices:

- a system amplifier unit
- a paging control unit

The system amplifier unit is a 2U high and 1/2 rack width metal enclosure and has been designed so that is ideal for both wall and under-table mounting.

The system amplifier unit has a built-in 40W power amplifier with low impedance and constant voltage 70V/100V outputs plus all other audio and utility connections and power supply.

Audio inputs are: one dedicated for the system paging controller, one for a BGM source and two additional (one MIC level -with Phantom Power option and one LINE level) with VOX or Command facility.

Priority among speech inputs (all with priority over music program) is configurable, BGM attenuation level is also configurable.

A PRE-OUT is available and can be set to provide BGM only, Paging only or Paging + BGM to an external device, such as 'Music on Hold' (MOH), power amplifier etc. The signal from this output is available both as line level and through a 1W (on 8 Ohm) amplifier to drive a local speaker for monitoring purposes.

An AUX relay (activated every time paging is in process) is provided for use in volume restoration or other security applications.

The unit can be powered by 115V or 230V ac and/or a 12VDC battery.

IN and OUT connections on the power system unit are through detachable "Euroblock" screw terminals, except the BGM input which is an RCA stereo phono socket.

Up to 16 system amplifier units can be linked on a dedicated BUS using cat-5 cable and RJ connectors. In operation each system-paging control console can access an additional shared power amplifier to allow extra call routing. To obtain this function correct configuration of the AUX PTT button on the paging & control unit has to be made.

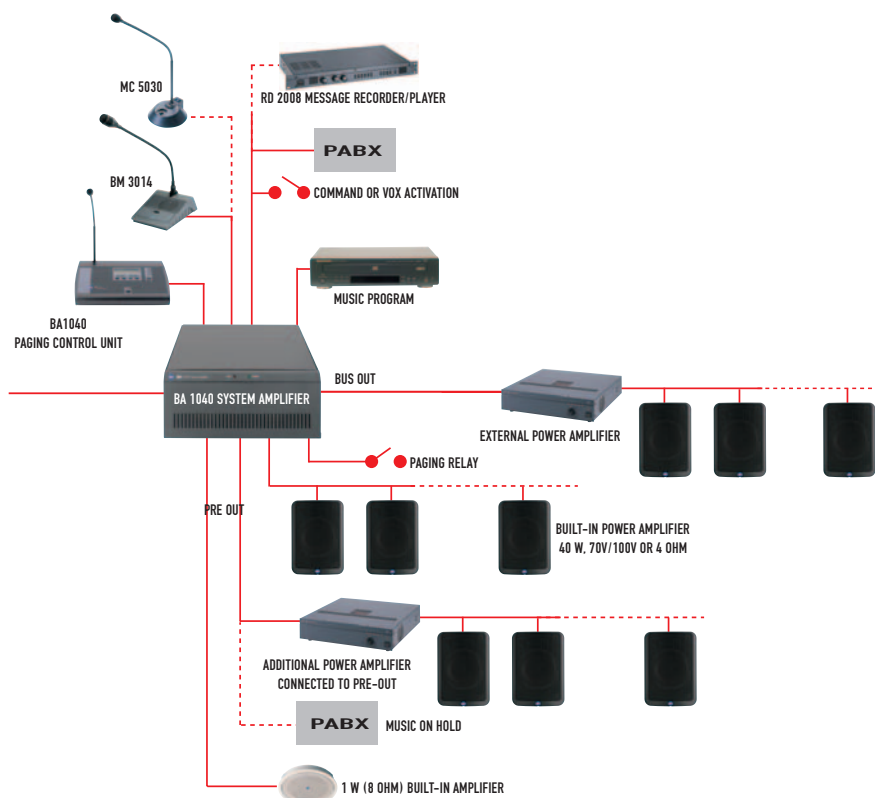
The paging control unit is connected to the power system unit through a cat-5 cable using RJ connectors (5 m of terminated cable provided).

The remote paging and control console is usable up to 50mtrs from the power amplifier system and can be extended by the provision of a local 12 V, AC or DC power supply adapter for the console.

The paging control console is equipped with a miniature gooseneck microphone and a PTT switch with LED indicator 'MIC active' and has an LCD back-lit display with dedicated buttons for system configuration. Through simple menus any function of the system operation can be configured from input priority, levels, volume, loudness, tone, chime, siren-signal to configuration of the AUX PTT button (present on the console with its own indicator) in order to get access through it to the other units connected on the BUS or to send priority signals associated to siren-tone locally or in general and other functions.

The display also shows a VU-meter bar following the signal being managed. The set-up menus are protected and accessible only by the installer.

Three LED indicators are also provided on the system controller for the main system indication: Power and Fault conditions. The LCD display shows more detailed information related to system operation and diagnostics. RCF designed, the BA 1040 is an innovative affordable digitally controlled system.



PAGING & CONTROL UNIT

- Suitable for desktop or wall mounting (with adaptor provided)
- Connected to System Amplifier unit with CAT5 cable
- LCD back-lit interactive display with dedicated buttons to configure and adjust both system inputs and outputs like Volume, Gain, Priority, Bass-Treble, Loudness, Chime tones etc.
- Miniature microphone and Smart PTT switch with indicator
- AUX PTT configurable switch for Emergency or local/remote paging facility
- Power and Fault LED indicators
- VU-meter and diagnostic messages shown on LCD
- AC or 12VDC local power supply input to be used for long connection only (over 50m)

SYSTEM AMPLIFIER UNIT

- Suitable for wall, under-desk (with adaptor provided) or rack mounting (optional adaptor)
- Built-in 40W power amplifier with 100V, 70V and 4 Ohm speaker output
- 4 inputs: PAGING microphone, MIC input with phantom, LINE level input, MUSIC input
- VOX and logic-input facility configurable on MIC and LINE input, together with priority levels
- Output paging relay available for overriding commands (i.e. volume attenuators)
- Configurable pre-output (Paging + Music, Music only, Paging only) with both LINE and 1W/8 Ohm driving capacity
- All connectors are removable screw terminals
- AC or 12VDC operation
- Power, Communication and Fault indicators are available on front panel
- 16 x BA 1040 systems can be daisy chained on a dedicated BUS using CAT5 cable to get call on a shared power amplifier facility from any paging unit; priority or interlock operation can be set



BA1040 SYSTEM vs MIXER AMPLIFIER – COMPARISON IN PAGING APPLICATIONS



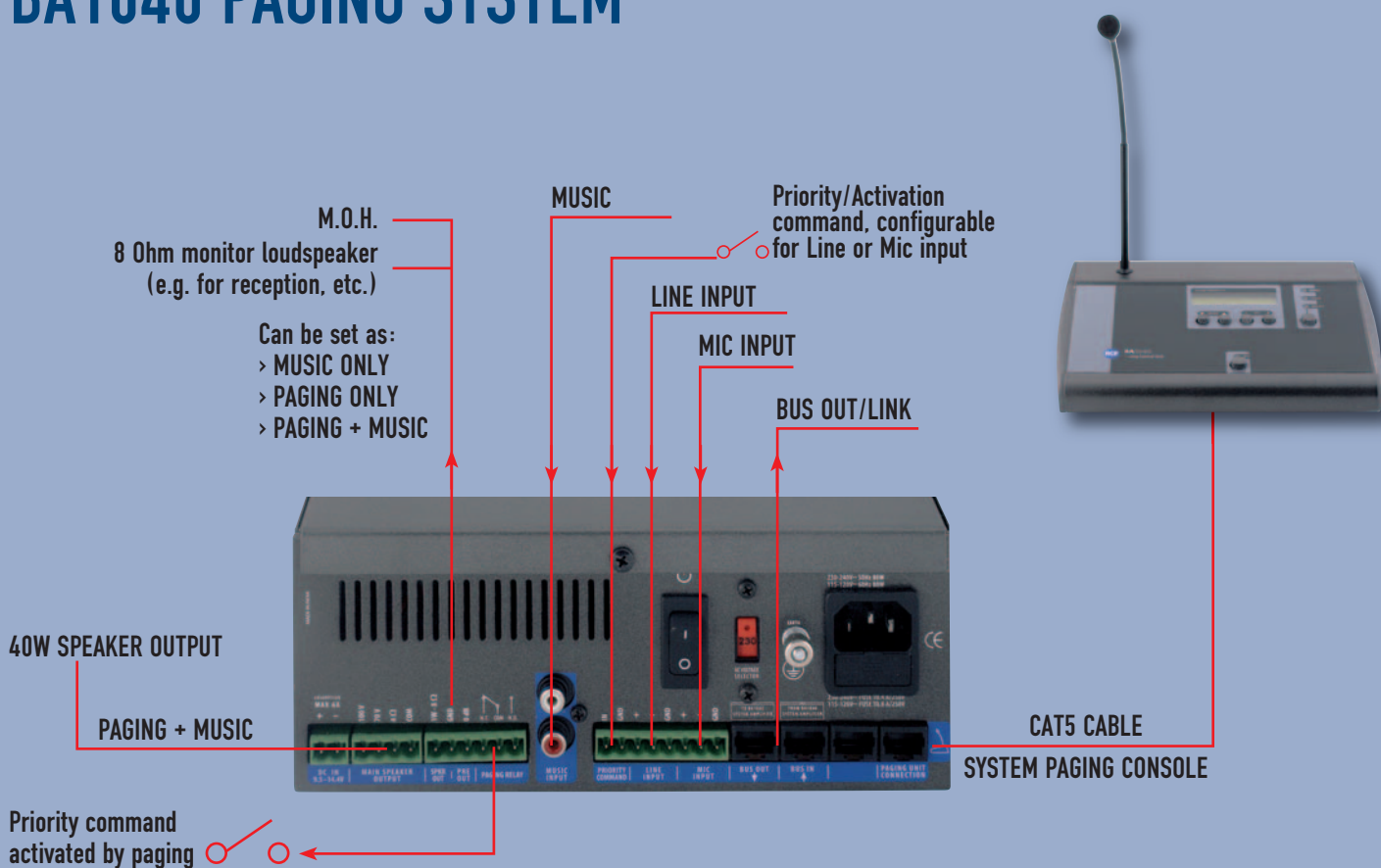
AM 1122-N MIXER AMPLIFIER

- › 4 universal inputs with volume control
- › MUSIC input with volume control
- › TAPE output
- › Master (volume) control
- › Over-all tone controls
- › 100V or 4 Ohm speaker output (120W on AM 1122-N)
- › PRE-OUT for additional power amplifiers connection
- › Input 1 with priority over the other inputs
- › Chime (dual tone)
- › Paging console on request, connection through shielded cable

BA 1040 SYSTEM

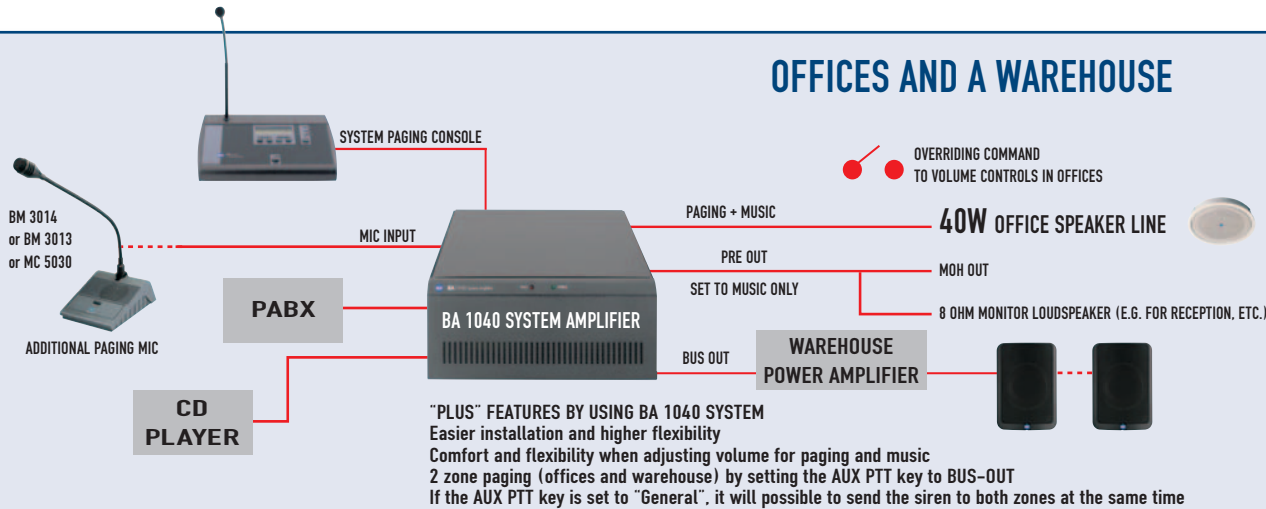
- › 4 dedicated inputs (system paging console, MIC+phantom, LINE, BUS) with volume control
- › 1 MUSIC input with volume control
- › Settable PRE output, available 1 W on 8 Ohm (useful for M.O.H. too)
- › Independent volume control on every output
- › Tone controls (and loudness) separated for MUSIC and PAGING
- › 40 W speaker output
- › PRE and BUS outputs to connect additional power amplifiers (independent volume control)
- › Priority/interlocking settable on each paging input, priority over music, triggered by contact or VOX assigned to MIC and LINE inputs
- › Aux relay excited on every announcement (from every input) for overriding functions
- › “Intelligent” PTT key, Settable AUX PTT key
- › Integrated chime generator (short or long chime)
- › Siren generator assignable to AUX PTT key
- › BUS output for paging to other systems BA 1040 or additional amplifiers
- › CONFIGURATION / CONTROL: remote from the paging console
- › System amplifier installation on wall / under a desk
- › Paging console (provided) installation: desk-top / on-wall, connection through CAT5 cable and RJ 45 connectors

BA1040 PAGING SYSTEM

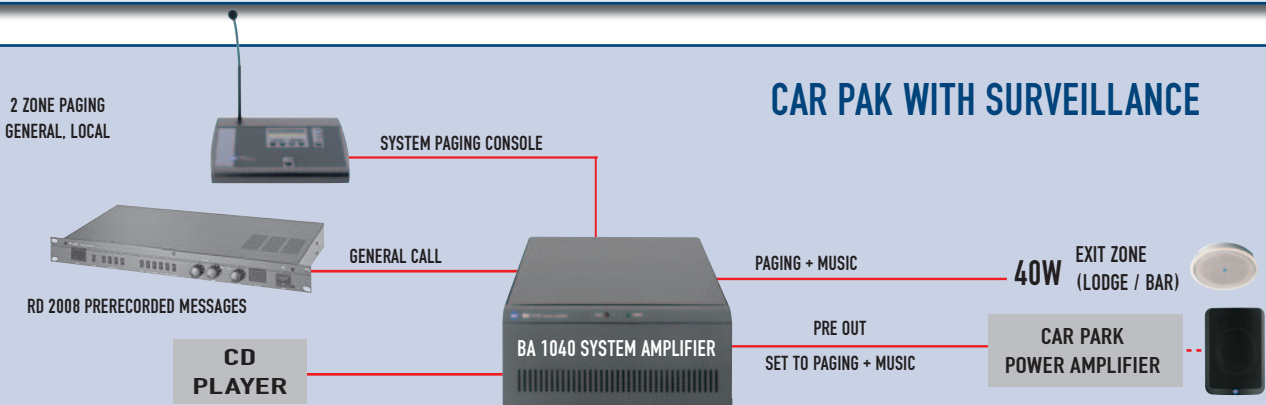


EXAMPLES OF SYSTEM CONFIGURATIONS

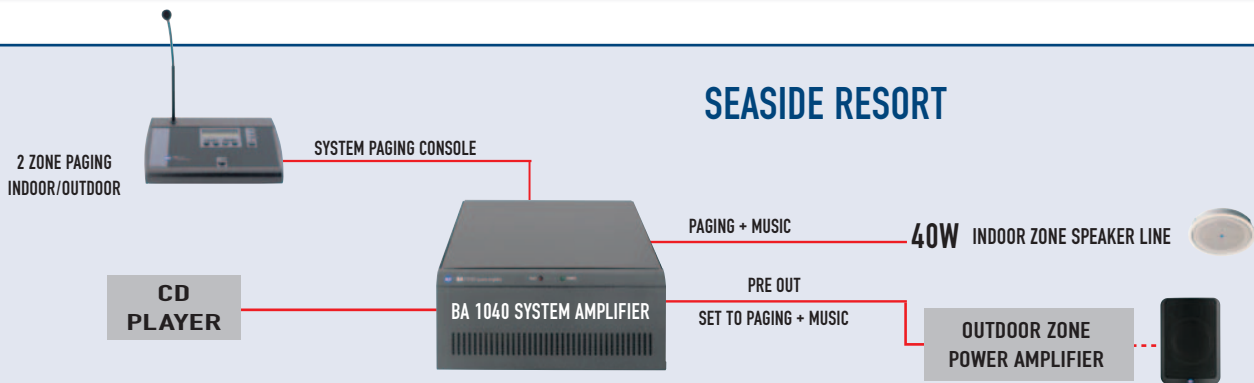
OFFICES AND A WAREHOUSE



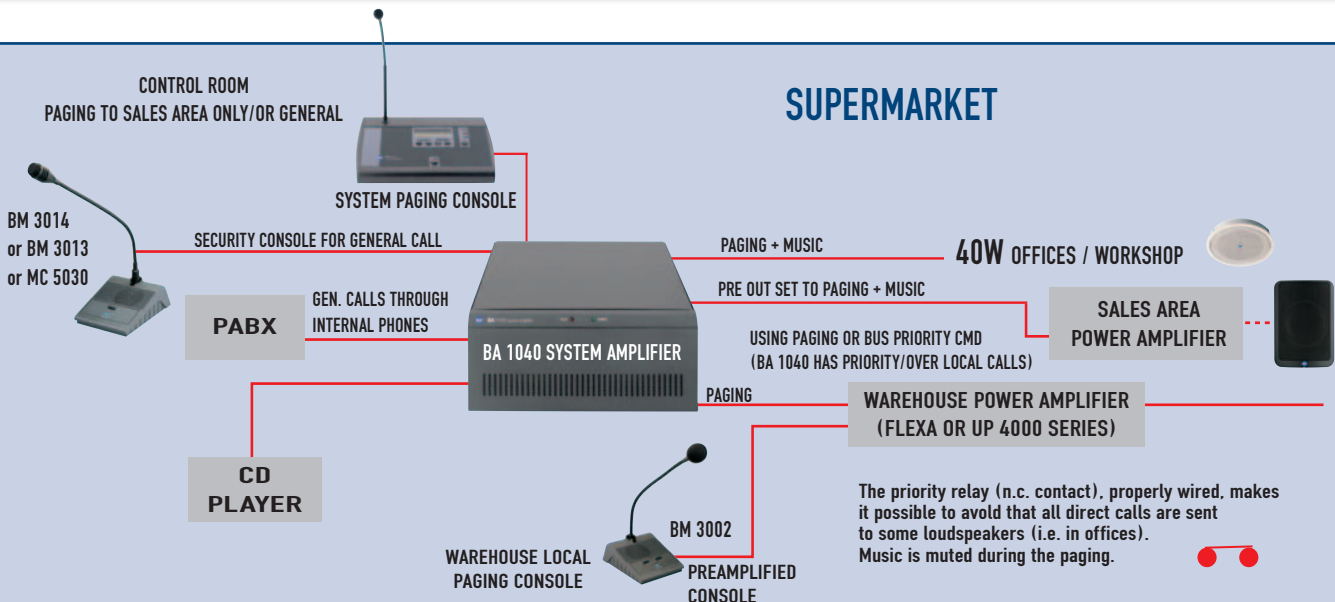
CAR PAK WITH SURVEILLANCE



SEASIDE RESORT

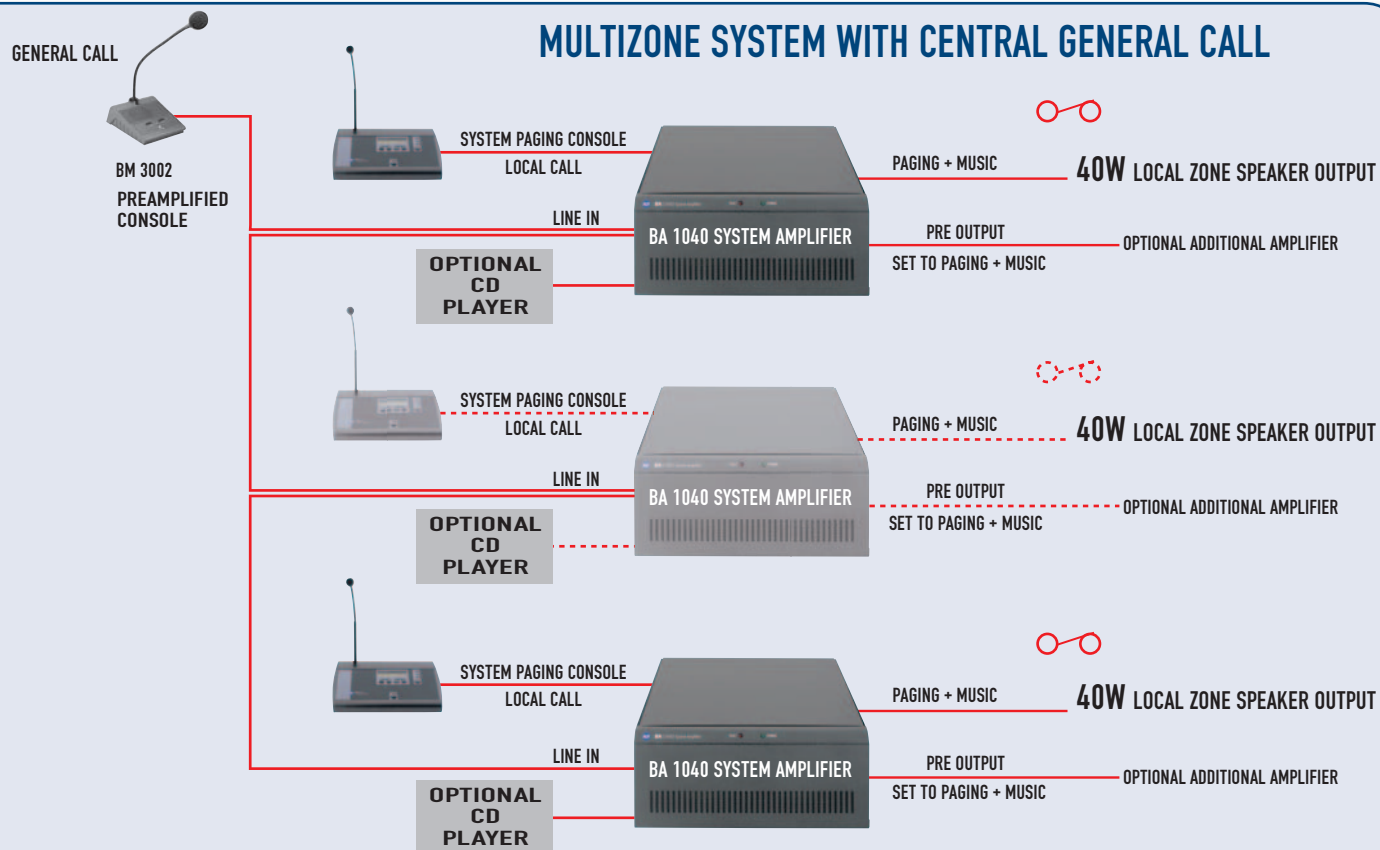


SUPERMARKET

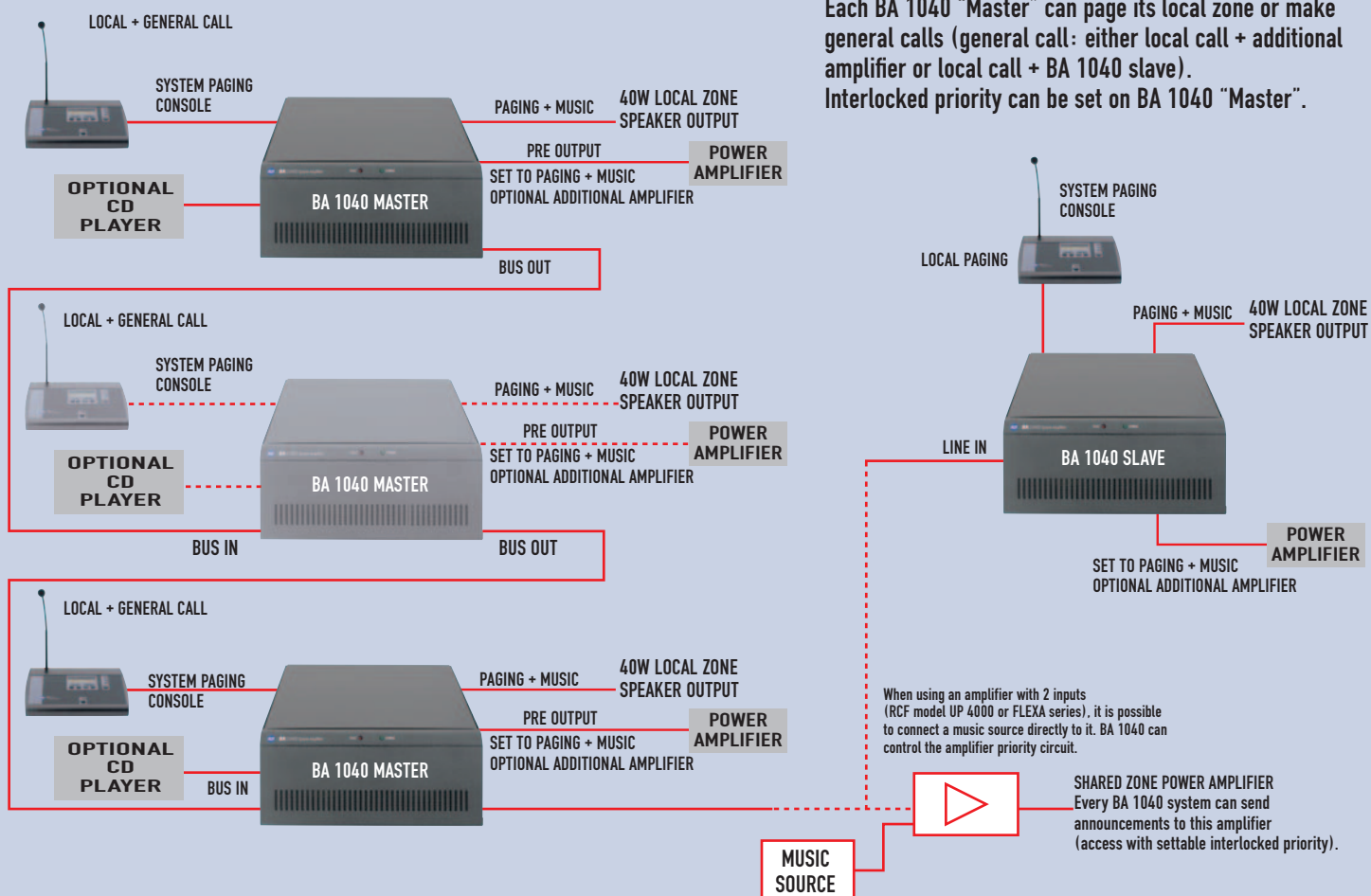


MULTIZONE SYSTEMS

MULTIZONE SYSTEM WITH CENTRAL GENERAL CALL



MULTIZONE SYSTEM with paging from "Master" systems (with interlocked priority) to "Slave" system(s) or to a shared zone with additional power amplifier





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cod. 10409064

RCF SpA Italy:
tel. +39 0522 274 411 - fax +39 0522 232 428
www.rcfaudio.com - e-mail: info@rcf.it

RCF UK Sales Office:
tel. +44 7005 402181
e-mail: info@rcfaudio.co.uk

RCF France Sales Office:
tel. +33 6 07501800
e-mail: rcfrance@aol.com

RCF Germany Sales Office:
tel. +49 2203 925370
e-mail: germany@rcf.it

RCF USA Sales Office:
tel. +1 (603) 926-4604
e-mail: rcf-usa@comcast.net