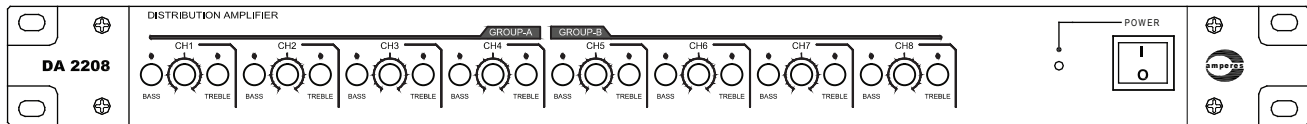




INSTRUCTION MANUAL

DA2208

2 Input 8 Output Signal Distribution Amplifier



Thank you for choosing another quality product from Amperes Electronics.

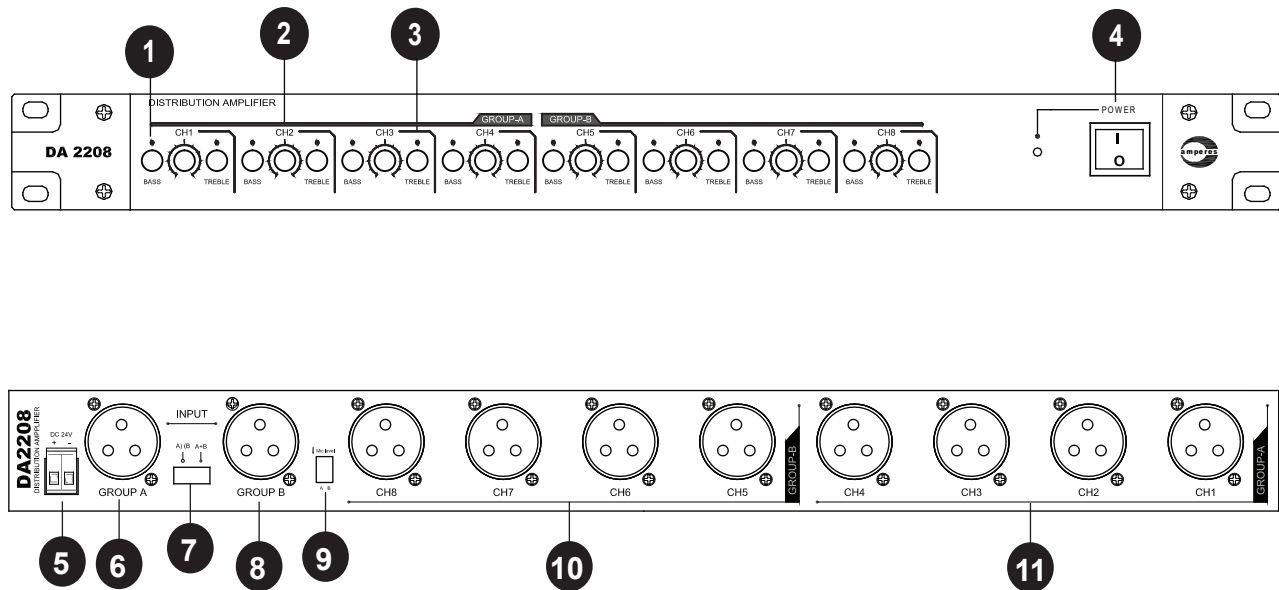
We believe your trust in employing this product in your installation shall in a way enhance the performance of the system. Why ?... We had came a long way to make every product rolled out from our factory meets your demands for reliable and worthy piece of equipment.

By using every Amperes product, you can be assured of money well worth invested in, as we do not end here. After sales services, parts availability and prompt turn around downtime are our key matters in our after sales objectives.

Our continuous improvement policy ensures any new features or upgrades shall be included in future batches and is our commitment in producing best possible product for the industry.

Although it is not difficult to install this unit, a brief reading of the manual is truly recommended to avoid any wrong connections as well as explore the potential usage of the product to its maximum.

Parts Identifications



1. TREBLE LEVEL ADJUST

Every individual output shall have its treble level adjustment knob. Position at the centre shall be unity gain for treble.

2. VOLUME ADJUST

Each output channel has volume adjustment knob from min (-40 dB) to max gain of 4 dB.

3. BASS LEVEL ADJUST

Similar to treble adjust knob, every individual output shall have its bass level adjustable from its original signal. Position at the centre shall be unity gain.

4. POWER SWITCH

To switch on / off the DC power connected to the unit.

5. DC POWER CONNECTOR

The unit operates using 24V DC power supply, either via AC/DC adaptor or Amperes PS9400 power supply unit. We strongly recommend regulated power supply for powering the unit. Direct powering via 24V battery charger or battery connected to battery charger should be avoided.

Parts Identifications

6. AUDIO SIGNAL INPUT - GROUP A

Audio signal input to be amplified and distributed should be balanced line signal. Max input shall be 1.2V rms. Signal inserted to this input shall be routed to Group A outputs.

7. INPUT SIGNAL LINK SWITCH

.If the unit is to be used as 1 input and 8 output, switch the slider to link position. In this case, do not connect the input signal to the input signal jack for Group B

8. AUDIO SIGNAL INPUT - GROUP B

Audio signal input to be amplified and distributed should be balanced line signal. Max input shall be 1.2V rms. Signal inserted to this input shall be routed to Group B outputs.

9. MIC / LINE SWITCH

Input level from the unit can be preselected with either mic (0.775V) or line level (1.2V).

10. AUDIO OUTPUT - GROUP A

Audio signal from XLR input Group A shall be distributed through the 4 nos of XLR jacks indicated as Group A outputs.

11. AUDIO OUTPUT - GROUP B

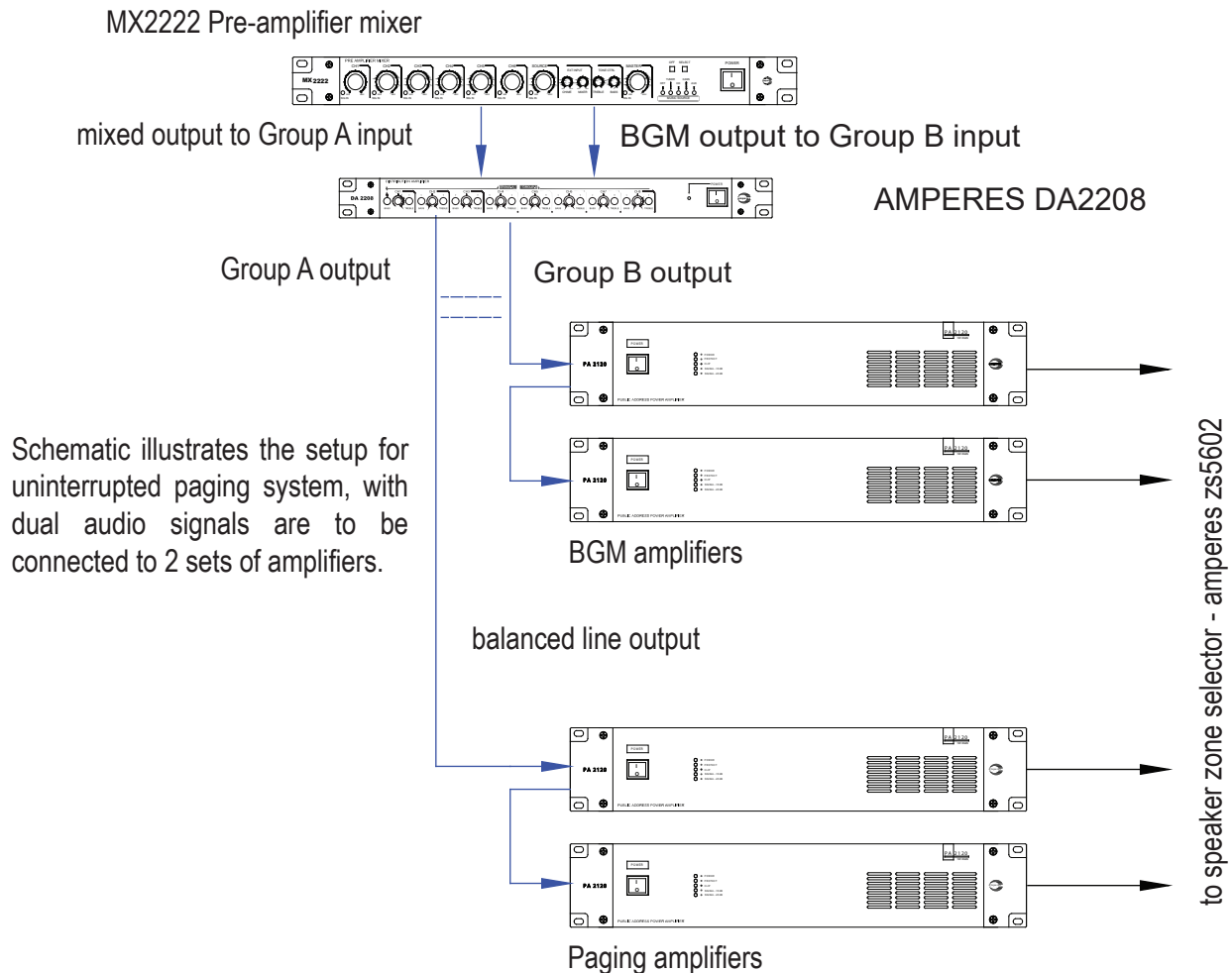
Audio signal from XLR input Group B shall be distributed through the 4 nos of XLR jacks indicated as Group B outputs. If the unit is in linked mode, the outputs shall be the amplified signal of Group A input.

Application Schematics

DA2208 can be used for various applications, such as :

- distribution of single audio signal to multiple units of power amplifiers
- distribution of audio signal from one location to multiple sites
- tone controls of various locations according to listening taste from single audio source
- PA application in uninterrupted paging system

Typical schematics for audio distribution from single / double source to multiple units of amplifiers.

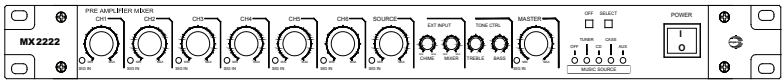


Note :

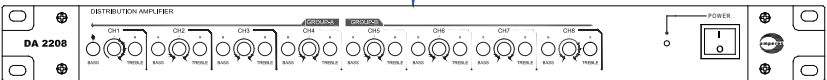
Use DA2208 when the output from a mixer (or any other source) is to be linked to many amplifiers (typically exceeding 6 units). Otherwise it shall not be required and can be fed to amplifier inputs directly from mixer.

Typical schematics for audio distribution from one location to multiple sites / multiple zones with different tone controls

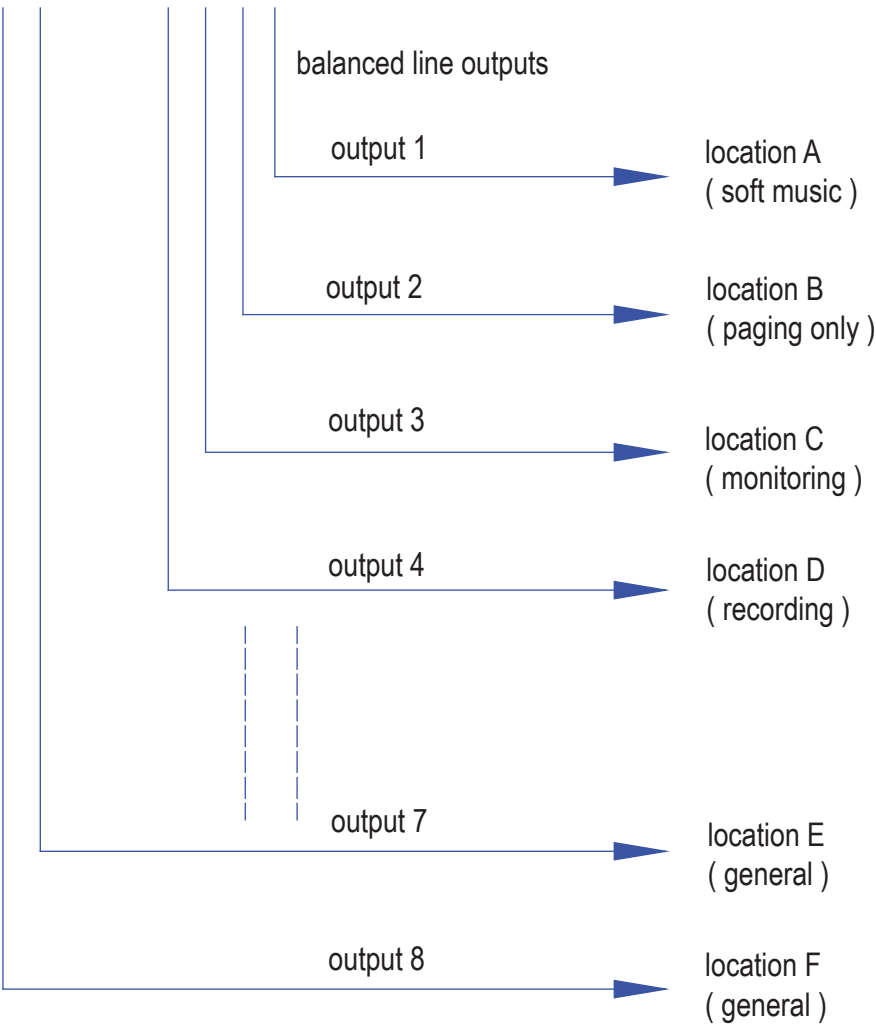
pre-amplifier mixer



audio output - line balanced

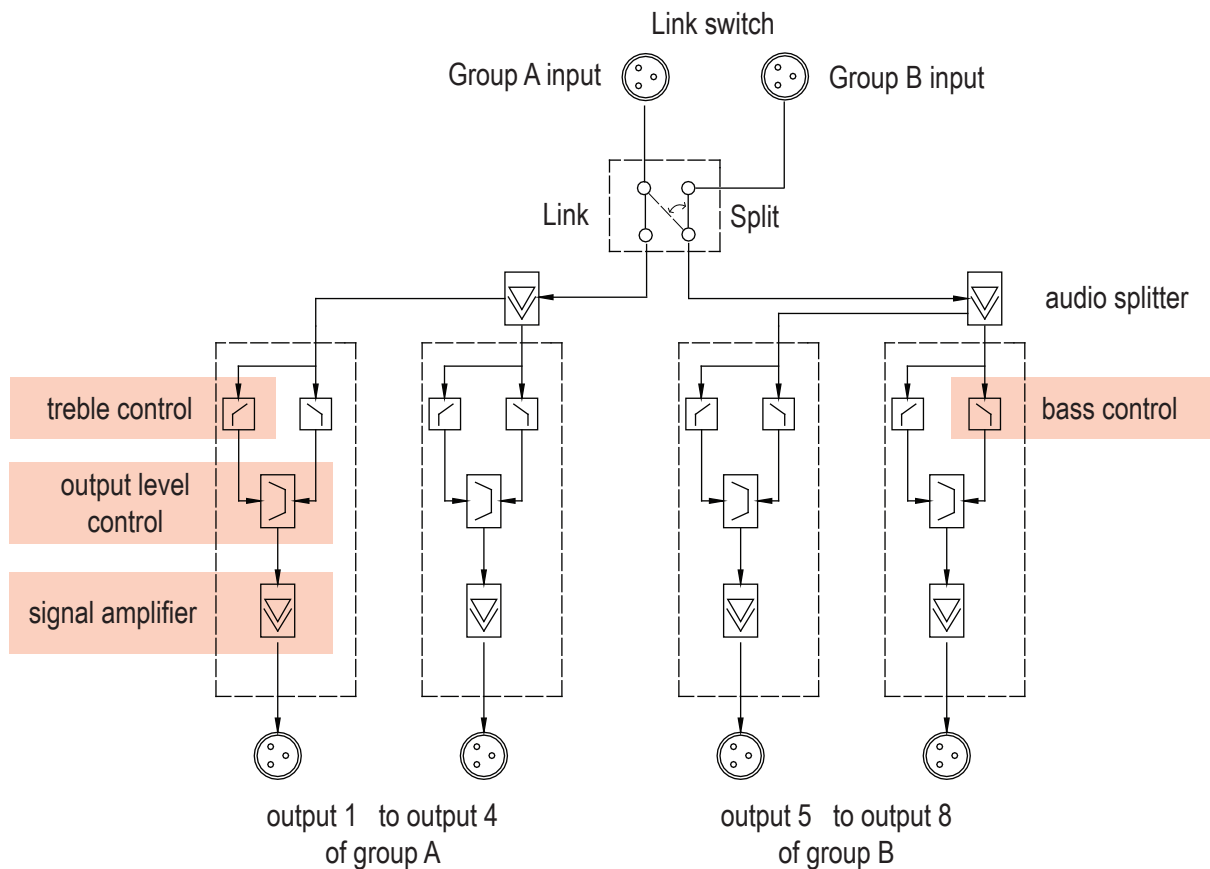


AMPERES DA2208

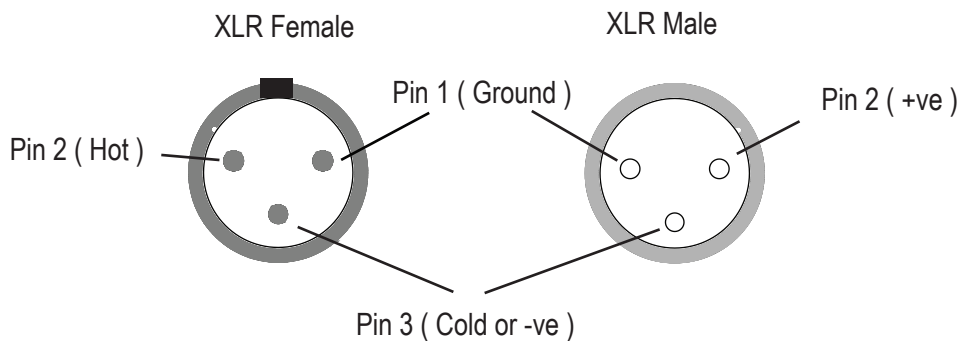


The schematic above illustrates a setup where a single source is to be distributed to different locations (eg. different block of building), and each requires different level of treble or bass.

Block Diagram



Connections



All inputs and outputs available in DA2208 are in balanced mode. In the event that unbalanced signal is to be used, pin 1 and pin 3 shall be shorted.

It is recommended that for a long distance cabling, balanced signal mode is used to avoid noise distortion in cabling.

Unbalanced signal can be inserted to DA2208 and obtain balanced output.

Technical Specifications

Input voltage	24V DC
Power consumption	7.2 W ; 0.3 A
Configuration	1 input 8 outputs / 2 in x 4 outputs
Input impedance	> 10 K Ohm
Input level	Line ; max 1.2V
Input jack	XLR balanced line signal
Output	8 x XLR balanced line signal
Indicator	Power LED
Controls	Channel volume, Bass and Treble
Cut off frequencies	Bass : Treble :
Bass control	+/- 2.5 dB (100 Hz)
Treble control	+/- 2.5 dB (10 KHz)
Max output level	1.2V @ 1 KHz
Nominal gain	+ 4dB
Frequency response	20 - 20 KHz +/- 3dB @ 1KHz
S/N Ratio	> 80 dB
THD	< 0.1% @ 1 KHz
Dimensions	482 x 44 x 180 mm
Weight	2.0 kg

NOTE :

Amperes Electronics Sdn Bhd has the policy of improving or reviewing its products in design, performance as well as quality from time to time. It is therefore, Amperes Electronics has the right to change the above specifications without prior notice. The specification change shall cover the physical appearance, features as well as components used. However, amperes Electronics shall maintain at all times that the products manufactured are of highest quality.

Warranty Conditions

Only Amperes Electronics Service Centres are allowed to make warranty repairs : a list of Amperes Electronics Service Centres may be asked for by the purchaser or send directly to Amperes Electronics Sdn Bhd at 70 Jalan Industri PBP 3, Tmn Perindustrian Pusat Bandar Puchong, 47100, Puchong, Selangor, Malaysia or its authorized dealers. This warranty is not valid if repairs are performed by unauthorized personnel or service centres.

This warranty covers only repairs and replacement of defective parts ; cost and risks of transportation as well as removal and installation of the product from the main system are for the account of the purchaser. This warranty shall not extend to the replacement of the unit.

This warranty does not cover damages caused by misuse, neglect, accident of the product as well as using the product with power supply voltage other than shown on the product, or any other power supply source / adaptor not recommended by the manufacturer.

This warranty does not cover damages caused by fire, earthquakes, floods, lightning and every cause not directly related to the unit.

This warranty does not include any indemnity in favor of the purchaser or the dealer for the period out of use of the unit; moreover the warranty does not cover any damages which may be caused to people and things when using the product.

This warranty certificate is valid only for the described product, and is not valid if modifications are made on this certificate or on the identification label applied on the product.

This warranty covers all the material and manufacturing defects and is valid for a period of 36 months from the date of purchase or for a specified period in countries where this is stated by a national law. In this case, the extension is valid only in the country where the product is purchased.

Amperes Electronics Sdn Bhd is not obliged to modify previously manufactured products under warranty if the design changes or improvements are made.

Disclaimer

Information contained in this manual is subject to change without prior notice and does not represent a commitment on the part of the vendor. AMPERES ELECTRONICS SDN BHD shall not be liable for any loss or damages whatsoever arising from the use of information or any error contained in this manual.

It is recommended that all services and repairs on this product be carried out by AMPERES ELECTRONICS SDN BHD or its authorized service agents.

AMPERES series must only be used for the purpose they were intended by the manufacturer and in conjunction with this operating manual.

AMPERES ELECTRONICS SDN BHD cannot accept any liability whatsoever for any loss or damages caused by service, maintenance or repair by unauthorized personnel, or by use other than that intended by the manufacturer.



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