

Crystal Vision

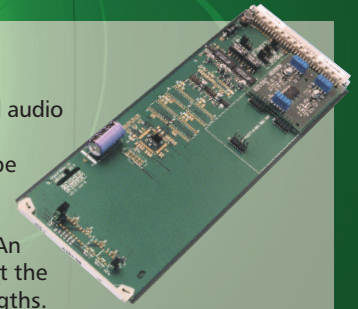
Digital Audio Distribution Amplifiers

The DADA208, DADA208N and DADA208D make up Crystal Vision's digital audio distribution amplifier range. Ideal for use in all broadcast areas where AES signals need to be distributed, the three dual DADAs offer an impressive number of different options including relocked and non-relocked outputs, BNC, D-Type and DIN connections, impedance conversion and the ability to incorporate delays. All have two stereo feeds in and up to four outputs of each channel, or can alternatively be configured to have one input and up to eight outputs. Modules sized just 100mm x 266mm mean 12 boards – 24 DAs – can be fitted in a 2U frame. All have cable equalisation and both GPI and board edge indication of input present. The DADAs can be used with eight different frame rear modules to obtain just the output configuration you need. The RM03 and RM35 rear modules can be used for D-Type or DIN connector based 110 ohm AES, while for BNC based 75 ohm AES you have the choice of the RM01, RM02 and RM16. The RM12, RM13 and RM21, meanwhile, allow impedance conversion.

- ☞ Dual digital audio distribution amplifiers, available in three versions
- ☞ Configure as either two stereo inputs with four outputs per channel, or one input with eight outputs
- ☞ Relocking and non-relocking versions, to suit all applications and budgets
- ☞ Selection of rear modules for 110 ohm and 75 ohm AES, as well as impedance conversion
- ☞ DADA208D includes selectable delay of up to one second
- ☞ Space-saving: 100mm x 266mm modules allow 12 distribution amplifiers – 24 channels – in 2U (24 in 4U, six in 1U and two in desk top box)
- ☞ Board edge control

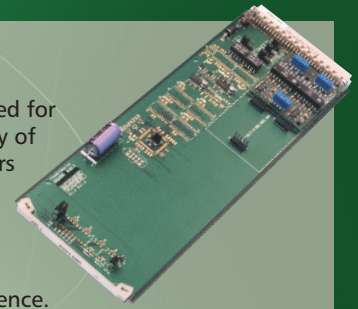
DADA208

The DADA208 is a dual digital audio distribution amplifier with relocked outputs. It should be used for high protection requirements and can correct unstable AES inputs. An active cable equaliser makes it the first choice for long cable lengths.



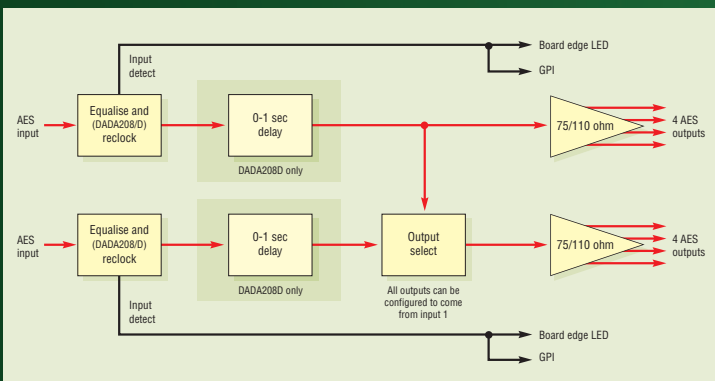
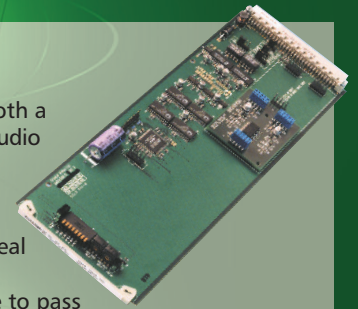
DADA208N

The DADA208N should be used for applications where the quality of the AES input is known. It offers non-relocked outputs for a slightly lower price than the DADA208 and, with its zero delay, is particularly ideal for distributing Word Clock reference.

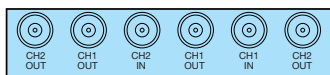


DADA208D

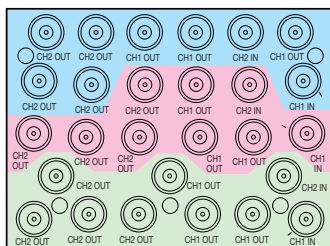
The DADA208D doubles as both a distribution amplifier and an audio delay line. It has relocked outputs and includes a selectable delay of up to one second at 48kHz making it ideal for matching delays in video processing equipment unable to pass embedded audio, such as certain ARCs and DVEs. With an independent delay adjust on each channel, the delay is selectable by a combination of DIP and rotary switches in one video field steps from 0-51 fields (625 line) or 0-61 fields (525 line).



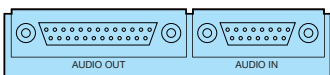
SPECIFICATION



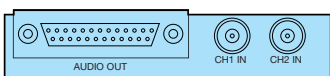
RM01



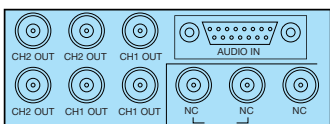
RM02



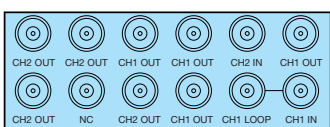
RM03



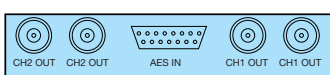
RM12



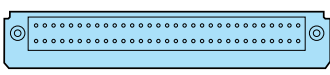
RM13



RM16



RM21



RM35

MECHANICAL

Standard Crystal Vision modules
266mm x 100mm

Weight: 140g (DADA208 and DADA208N); 150g (DADA208D)

Power consumption: 0.6 Watts (DADA208); 0.8 Watts (DADA208N); 2.1 Watts (DADA208D)

AUDIO INPUTS

Two AES stereo pairs. 110 ohm (balanced) D-Type/DIN connector or 75 ohm (unbalanced) BNC

Set by on-board jumper links to 75 ohm, 110 ohm or high impedance for multiple units on a single feed

28.4kHz to 100kHz input with cable equalisation and (DADA208/D only) reclocking

AUDIO OUTPUTS

Maximum of eight reclocked AES outputs with DADA208/D and eight non-reclocked AES outputs with DADA208N

Can be used with RM01, RM02, RM03, RM12, RM13, RM16, RM21 and RM35 frame rear modules depending on impedance and outputs required (see Ordering Information for full details)

The 'easywire' RM35 has its audio connections on a 64-way DIN 41612 connector which

stretches the full width of the rear module and therefore gives more room to solder the wires on to the individual pins

Rear modules with 75 ohm BNC outputs (RM01, RM02, RM13, RM16 and RM21) require OPAES-75 output module to be fitted to DADA

Rear modules with 110 ohm D-Type (RM03 and RM12) or DIN connector (RM35) outputs require OPAES-110 output module to be fitted to DADA

Outputs 1-4 always from input 1. Outputs 5-8 selectable by link (DADA208/N) or board edge switch (DADA208D) to come from either input 1 or input 2

In DADA208D input to output delay is selectable from board edge in one video field steps from 0-51 fields (625 line) or 0-61 fields (525 line)

LED INDICATION OF:

Power supply on board

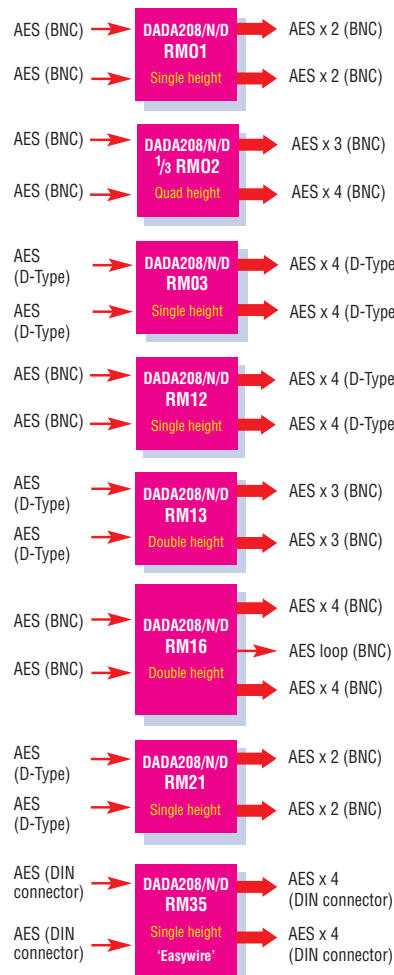
AES inputs present

GPI OUTPUTS

Two GPI inputs indicate AES input not present for each channel

LOCAL CONTROL

Board edge control of functions



NB. Can be configured so all outputs come from single input

ORDERING INFORMATION

DADA208	Digital audio distribution amplifier with eight reclocked outputs
DADA208N	Digital audio distribution amplifier with eight non-reclocked outputs
DADA208D	Digital audio distribution amplifier with eight reclocked outputs and selectable delay
OPAES-75	75 ohm AES output module
OPAES-110	110 ohm AES output module
OP-WDCLK	For TTL level word clock distribution when used with DADA208N
Indigo 4	4U frame with passive front panel for up to 24 Crystal Vision modules
Indigo 4SE	4U frame with passive front panel fitted with Statesman CPU for up to 24 Crystal Vision modules
Indigo 2	2U frame with passive front panel for up to 12 Crystal Vision modules
Indigo 2AE	2U frame with active front panel for up to 12 Crystal Vision modules
Indigo 2SE	2U frame with passive front panel fitted with Statesman CPU for up to 12 Crystal Vision modules
Indigo 1	1U frame with passive front panel for up to six Crystal Vision modules. Power supply redundancy available with Indigo 1-DP
Indigo 1AE	1U frame with active front panel for up to six Crystal Vision modules. Power supply redundancy available with Indigo 1AE-DP
Indigo 1SE	1U frame with passive front panel fitted with Statesman CPU for up to six Crystal Vision modules. Power supply redundancy available with Indigo 1SE-DP
Indigo DT	Desk top box with passive front panel for up to two Crystal Vision modules
Indigo DTSE	Desk top box with passive front panel fitted with Statesman CPU for up to two Crystal Vision modules
RM01	Single slot frame rear module. Allows maximum number of DADA in frame (24 in 4U, 12 in 2U, six in 1U, two in desk top box). Two 75 ohm AES (BNC) inputs and two 75 ohm AES (BNC) outputs of each channel
RM02	Four slot frame rear module. One rear module used for three DADA, allowing 18 DADA in 4U and nine in 2U. Two 75 ohm AES (BNC) inputs and three 75 ohm AES (BNC) outputs of the first channel and four of the second
RM03	Single slot frame rear module. Allows maximum number of DADA in frame (24 in 4U, 12 in 2U, six in 1U, two in desk top box). Two 110 ohm AES (D-Type) inputs and four 110 ohm AES (D-Type) outputs of each channel
RM12	Single slot frame rear module. Allows maximum number of DADA in frame (24 in 4U, 12 in 2U, six in 1U, two in desk top box). Used for impedance conversion. Two 75 ohm AES (BNC) inputs and four 110 ohm AES (D-Type) outputs of each channel
RM13	Two slot frame rear module. Allows 12 DADA in 4U, six in 2U, three in 1U and one in desk top box. Used for impedance conversion. Two 110 ohm AES (D-Type) inputs and three 75 ohm AES (BNC) outputs of each channel
RM16	Two slot frame rear module. Allows 12 DADA in 4U, six in 2U, three in 1U and one in desk top box. Two 75 ohm AES (BNC) inputs and four 75 ohm AES (BNC) outputs of each channel with an AES (BNC) loop-through of the first
RM21	Single slot frame rear module. Allows maximum number of DADA in frame (24 in 4U, 12 in 2U, six in 1U, two in desk top box). Used for impedance conversion. Two 110 ohm AES (D-Type) inputs and two 75 ohm AES (BNC) outputs of each channel
RM35	Single slot frame rear module with 'easywire' DIN 41612 connector. Allows maximum number of DADA in frame (24 in 4U, 12 in 2U, six in 1U, two in desk top box). Two 110 ohm AES (D-Type) inputs and four 110 ohm AES (D-Type) outputs of each channel

Performance and features are subject to change. Figures given are typical measured values. DADA0311

Crystal Vision Ltd.

Lion Technology Park,
Station Road East, Whittlesford,
Cambridge CB22 4WL, England.

Tel: +44 (0)1223 497049

Fax: +44 (0)1223 497059

E-mail: sales@crystalvision.tv

www.crystalvision.tv