

Crystal Vision

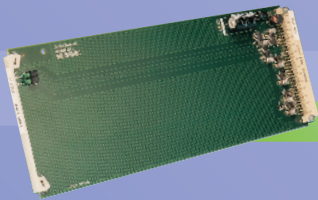
SDI/ASI DISTRIBUTION AMPLIFIERS

Crystal Vision's DDA range provides economical distribution of Standard Definition digital signals. The two boards offer the options of reclocking or non-reclocking and single or dual channel, while a variety of frame rear modules allow flexible selection of the number of outputs required.

These distribution amplifiers are ideal for use in a variety of applications, including master control rooms, studios, edit suites

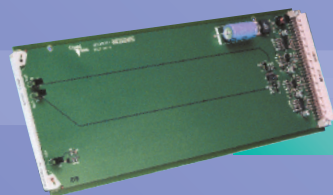
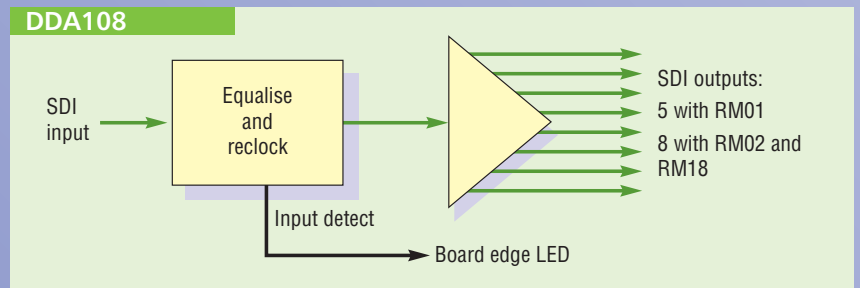
and OB vehicles. The space-saving 100mm x 266mm modules fit in the standard frames – available in 4U, 2U, 1U and desk top box sizes – with up to 12 boards housed in just 2U of rack space.

Crystal Vision offers other DAs suitable for the distribution of SDI, namely the intelligent Smart DA with its ability to monitor video and embedded audio, and the 3GDA range which can also be used for the distribution of HD and 3Gb/s video.



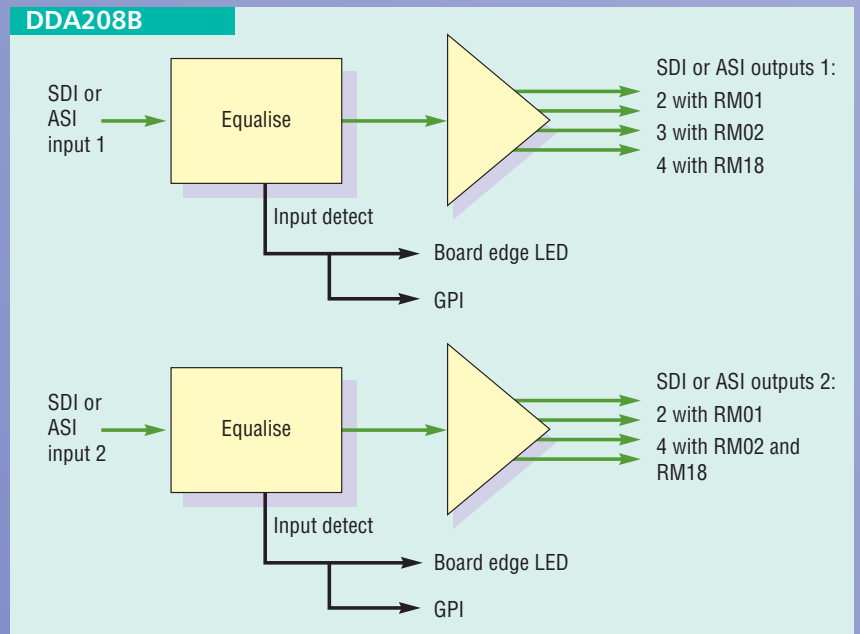
DDA108

The DDA108 is an SDI distribution amplifier designed to create multiple reclocked outputs from a digital signal. Used by those whose specifications require reclocking to remove high frequency jitter from a signal, it has high quality equalisation for up to 250m cable lengths and LED indication of input present. The RM01 rear module gives five outputs while the maximum number of outputs – eight – can be accessed by using the RM02 or RM18.

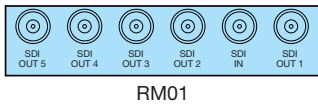


DDA208B

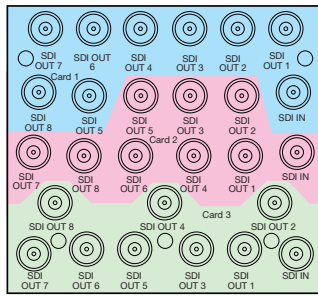
The DDA208B is Crystal Vision's dual SDI/ASI distribution amplifier which creates multiple non-reclocked outputs from a digital signal. It offers up to four outputs per channel, with all outputs being DVB-ASI compatible. The RM01 frame rear module gives two outputs per channel, the RM02 three outputs of the first and four of the second, and the RM18 the maximum four outputs of each. It has GPI indication of inputs absent and LED indication of inputs present. The space-saving DDA208B gives up to 24 channels in 2U and is ideal for situations where you have many feeds and require multiple copies of each – such as after a router.



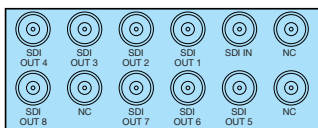
Used with DDA108...



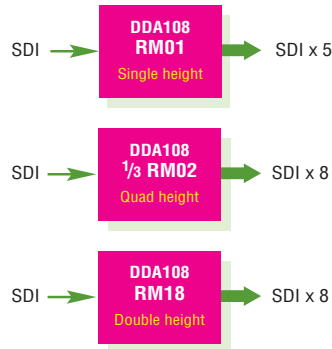
RM01



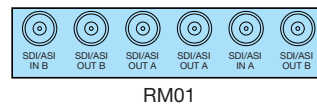
RM02



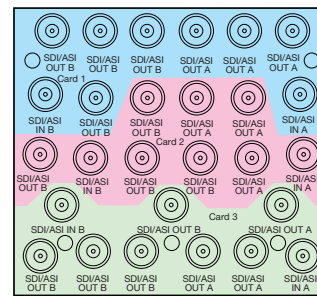
RM18



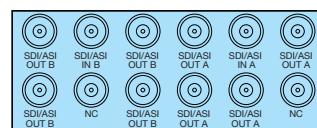
Used with DDA208B...



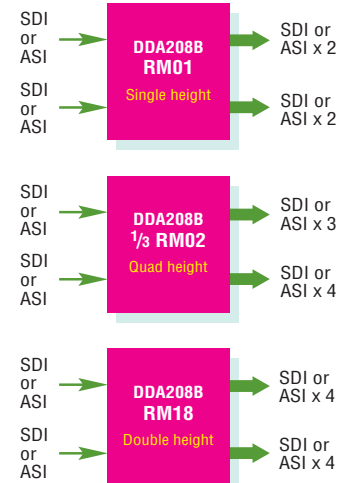
RM01



RM02



RM18



DDA108

MECHANICAL

Standard Crystal Vision module 266mm x 100m
Weight: 96g

Power consumption: 2.5 Watts

VIDEO INPUT

One SDI input with reclocking
270Mb/s to EBU 3267-E and SMPTE 259
Cable equalisation >250m Belden 8281 or equivalent

VIDEO OUTPUTS

Maximum of eight reclocked SDI outputs (five outputs with frame rear module RM01 and eight with RM02 and RM18)
Will drive >250m Belden 8281 or equivalent

LED INDICATION OF:

Power supplies on board
Input present

DDA208B

MECHANICAL

Standard Crystal Vision module 266mm x 100m
Weight: 96g

Power consumption: 1.5 Watts

VIDEO INPUTS

Two SDI or ASI inputs
270Mb/s to EBU 3267-E and SMPTE 259 or ASI data
Cable equalisation >250m Belden 8281 or equivalent

VIDEO OUTPUTS

Maximum of four non-reclocked SDI or ASI outputs per channel (two outputs per channel with frame rear module RM01, three outputs of the first channel and four of the second with RM02 and four of each channel with RM18)
All outputs are positive polarity and suitable for DVB-ASI
Will drive >250m Belden 8281 or equivalent

LED INDICATION OF:

Power supplies on board
Input 1 present
Input 2 present

GPI OUTPUT LEVELS

Electrically: Open collector transistors 30V, 270 ohm current limit resistors. Pulled up to +5V through 6800 ohm

GPI OUTPUTS

Input 1 not present
Input 2 not present

ORDERING INFORMATION

| | |
|-------------|--|
| DDA108 | Single channel SDI reclocking distribution amplifier with up to eight outputs |
| DDA208B | Dual channel SDI or ASI non-reclocking distribution amplifier with up to four outputs per channel |
| Indigo 4SE | 4U frame with active front panel featuring Statesman CPU for up to 24 Crystal Vision modules |
| Indigo 2AE | 2U frame with active front panel featuring Statesman CPU and integrated control panel for up to 12 Crystal Vision modules |
| Indigo 2SE | 2U frame with active front panel featuring Statesman CPU for up to 12 Crystal Vision modules |
| Indigo 1AE | 1U frame with active front panel featuring Statesman CPU and integrated control panel for up to six Crystal Vision modules. Power supply redundancy available with Indigo 1AE-DP |
| Indigo 1SE | 1U frame with active front panel featuring 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 active front panel featuring Statesman CPU for up to two Crystal Vision modules |
| RM01 | Single slot frame rear module. Allows maximum number of boards in frame (24 in 4U, 12 in 2U, six in 1U, two in desk top box). On the DDA108 gives access to one SDI input and five reclocked SDI outputs. On the DDA208B gives access to two SDI or ASI inputs and two non-reclocked SDI or ASI outputs per channel |
| RM02 | Four slot frame rear module. One rear module used for three boards, allowing 18 boards in 4U and nine in 2U. On the DDA108 gives access to one SDI input and eight reclocked SDI outputs. On the DDA208B gives access to two SDI or ASI inputs with three non-reclocked SDI or ASI outputs of the first channel and four of the second channel |
| RM18 | Two slot frame rear module. Allows 12 boards in 4U, six in 2U, three in 1U and one in desk top box. On the DDA108 gives access to one SDI input and eight reclocked SDI outputs. On the DDA208B gives access to two SDI or ASI inputs and four non-reclocked SDI or ASI outputs per channel. |

Performance and features are subject to change. Figures given are typical measured values. DDA0613