

500DA

SD-SDI Reclocking Distribution Amplifier



The 500DA Reclocking Distribution Amplifier provides inexpensive distribution of your SMPTE 310M and SMPTE 259M serial digital video signal at rates of 19.4Mb/s and 143Mb/s to 540Mb/s. Ideal in applications where a large quantity of outputs are required, the DA features an auto-equalized input with nine isolated relocked outputs.

The input also features an isolated return that is capacitively coupled to ground. The 500DA has been designed for use as a SMPTE 310M (19.4Mb/s), DVB-ASI or SMPTE 259M distribution product. SMPTE 310M support is selected by setting a rate select jumper.

The 500DA is housed in the 3RU 500FR **exponent** frame that will hold up to 16 modules.

►Features & Benefits

- Normal mode for SMPTE 259M (143 to 540Mb/s) or DVB-ASI signals autodetects correct bitrate
- Jumper Selectable mode for SMPTE 310M (19.4Mb/s)
- Fully hot-swappable from front of frame with no BNC disconnect required
- Independent isolated output drivers to ensure no cross channel loading effects (i.e. no need to terminate unused outputs)
- Outputs maintain polarity from input to output for DVB-ASI applications
- Tally output on Frame Status bus upon loss of input signal for quality monitoring
- VistaLINK® -capable for remote monitoring via SNMP (using VistaLINK® PRO) when installed in 500FR frame with 500FC VistaLINK® Frame Controller

Outputs

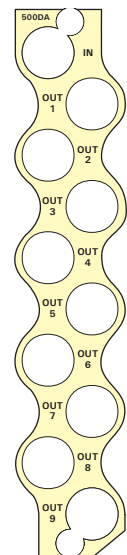
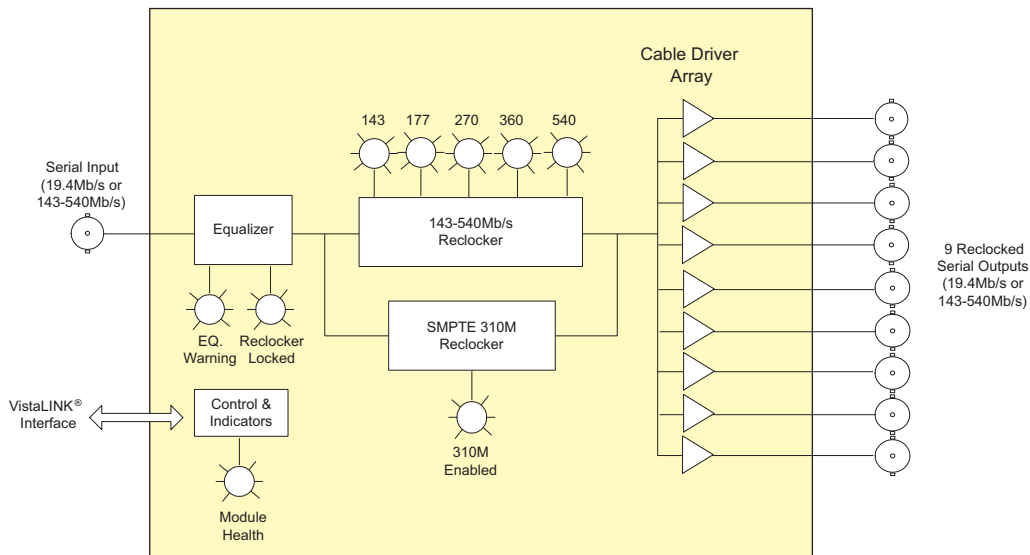
- 9 relocked outputs
- Return loss > 15dB up to 540Mb/s
- Wideband jitter < 0.2 UI

Card Edge LEDs

- Reclocker rate (5 LEDs)
- Reclocker Locked
- Max. Equalization Warning
- 310M Reclocker Enable
- Module Health Status

Input

- SMPTE 259M-A, B, C, D (143Mb/s to 540Mb/s), DVB-ASI, SMPTE 310M (19.4Mb/s) (jumper selectable)
- Return loss > 15dB up to 540Mb/s
- 440m auto eq. at 270Mb/s (Belden 1694A)



►Specifications

Serial Video Input:

Standard:	
259 Mode:	SMPTE 259M-A, B, C, D (143 to 540Mb/s) or DVB-ASI
310 Mode:	SMPTE 310M (19.4Mb/s)
Connector:	BNC per IEC 61169-8 Annex A
Equalization:	Automatic to 440m @ 270Mb/s with Belden 1694A
Return Loss:	> 15dB up to 540Mb/s

Serial Video Output:

Number of Outputs:	9 Relocked
Connector:	BNC per IEC 61169-8 Annex A
Signal Level:	800mV nominal
DC Offset:	0V ±0.5V
Rise and Fall Time:	470ps nominal
Overshoot:	< 10% of amplitude
Return Loss:	> 15dB up to 540Mb/s
Wideband Jitter:	< 0.2 UI

Electrical:

Voltage:	+12V DC
Power:	6W
EMI/RFI:	Complies with FCC Part 15 Class A EU EMC Directive

Physical:

Number of Slots:	1
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►Ordering Information

500DA	SD-SDI Reclocking Distribution Amplifier - (1x9)
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Enclosures
500FR
501FR

exponent
Compact High Density Distribution Frame
Standalone enclosure