

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 reclocked 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.

- 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

Input

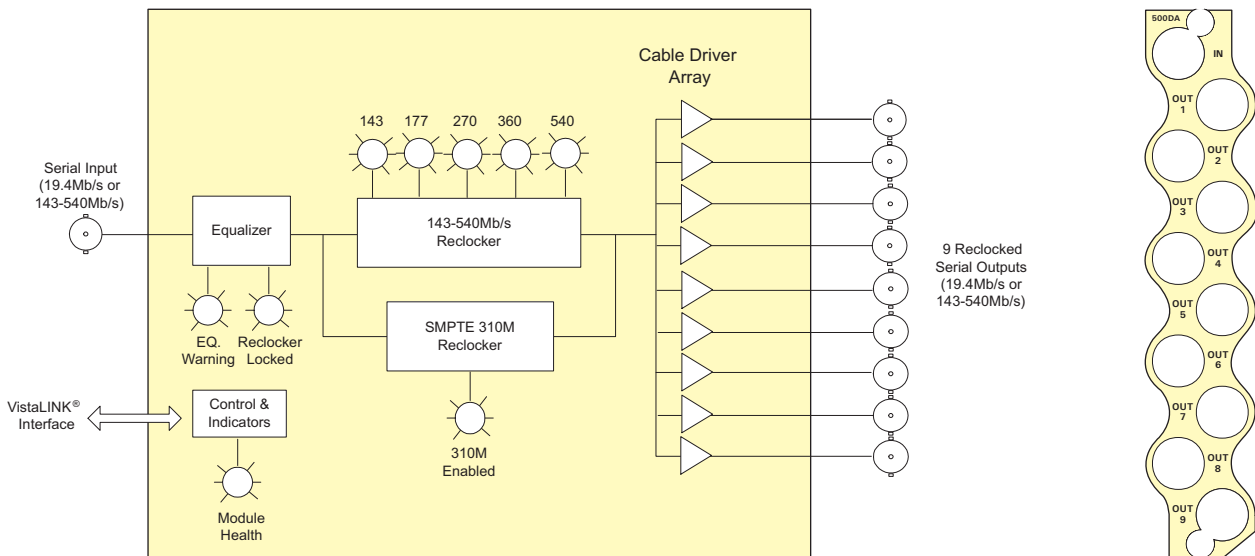
- SMPTE 259M-A, B, C, D (143Mb/s to 540Mb/s), DVB-ASI, SMPTE 310M (19.4Mb/s) (jumper selectable)
- Return loss > 15dB up to 540Mb/s
- 440m auto eq. at 270Mb/s (Belden 1694A)

Outputs

- 9 reclocked 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



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 Reclocked
Connector: BNC per IEC 61169-8 Annex A
Signal Level: 800mV nominal
DC Offset: 0V $\pm 0.5V$
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

Ordering Information

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

Enclosures
500FR
S501FR

exponent
Compact High Density Distribution Frame
Standalone enclosure

