

Combo HD/SD SDI Reclocking Distribution Amplifier

Model 500DA-HD

The Evertz 500DA-HD Reclocking Distribution Amplifier provides reliable distribution of your HDTV and SDTV SDI video signal at rates of 1.5 Gb/s and 143 Mb/s to 540 Mb/s. The DA features an auto-equalized input with eight serial outputs.

The 500DA-HD has been designed for use as a SMPTE 292M (1.5 Gb/s), DVB-ASI, SMPTE 259M, or SMPTE 310M distribution product.

The 500DA-HD DA's are housed in the 3RU 500FR **exponent** frame that will hold up to 16 modules.

Features

- Fully hot-swappable from front of frame with no BNC disconnect required
- Tally output on Frame Status bus upon loss of input signal for quality monitoring

Outputs:

- Independent isolated output drivers to ensure no cross channel loading effects (i.e. no need to terminate unused outputs)

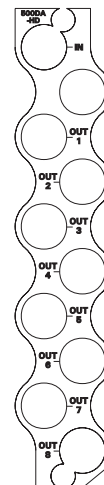
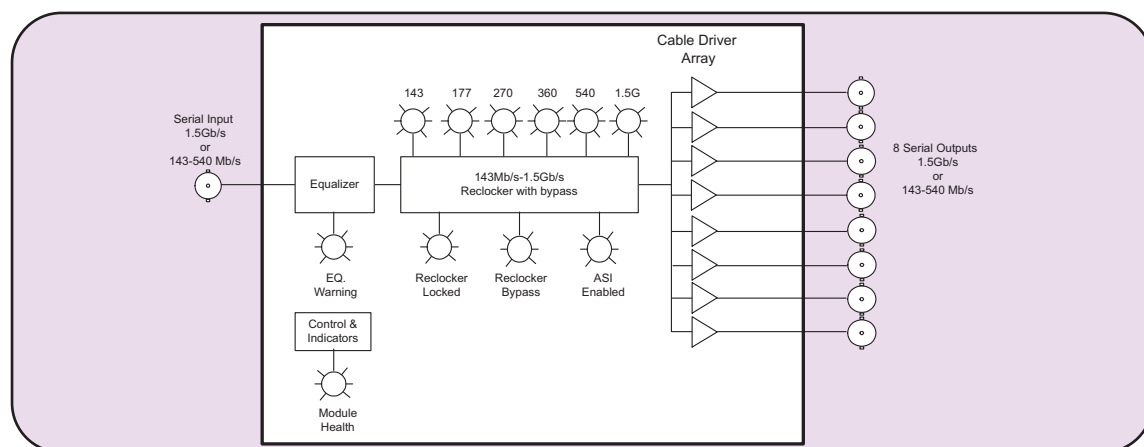
Inputs:

- Auto detects SMPTE 259M (143 to 540 Mb/s), SMPTE 292M (1.5 Gb/s) signals or DVB-ASI signals

Card Edge LEDs:

- Module Health Status
- Max. Equalization Warning
- Reclocker Locked
- Bitrate Indication

500DA-HD Block Diagram



Specifications

Serial Video Input:

Standard: SMPTE 292M, SMPTE 259M-A, B, C, D (143 to 540Mb/s), SMPTE 310M or DVB-ASI

Connector: BNC input per IEC 169-8

Equalization: Automatic to 350m @ 270Mb/s, 100m @ 1.5Gb/s with Belden 1694 (or equivalent)

Return Loss: > 15dB up to 1.0 Gb/s
> 10dB up to 1.5 Gb/s

Serial Video Outputs:

Number of Outputs: 8 Reclocked

Connector: BNC per IEC 169-8

Signal Level: 800mV nominal

DC Offset: 0V \pm 0.5V

Rise and Fall Time: 200ps nominal

Overshoot: < 10% of amplitude

Return Loss: > 15dB to 1.0 Gb/s
> 10db up to 1.5 Gb/s

Wideband Jitter: < 0.2 UI

Physical:

Number of Slots: 1

Electrical:

Voltage: + 12V DC

Power: 5 Watts

EMI/RFI: Complies with FCC Part 15 Class A
EU EMC Directive

Ordering Information:

500DA-HD

Combo HD/SD SDI Reclocking
Distribution Amplifier (1 x 8)

Enclosure:

500FR

S501FR

exponent

Compact High Density Distribution Frame
Standalone enclosure