

Combo HD/SD SDI Reclocking Distribution Amplifier

Model 500DA-HD/500DA-HD-L



The Evertz 500DA-HD and 500DA-HD-L Reclocking Distribution Amplifiers provide reliable distribution of your HD and SD SDI video signal at rates of 1.5 Gb/s and 143Mb/s to 540Mb/s. They both feature an auto-equalized input with eight serial outputs. The outputs can also be configured to be optionally re-clocked or not.

When inserted into a 500FR-L (Compact High Density Distribution Frame with Loop Thru), the 500DA-HD-L allows a single HD SDI input signal to be distributed up to 96 serial outputs, by looping up to 12 modules.

They have 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 and the 500DA-HD-L DA's are housed in the 3RU 500FR-L **exponent** frame..

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

Inputs:

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

Outputs:

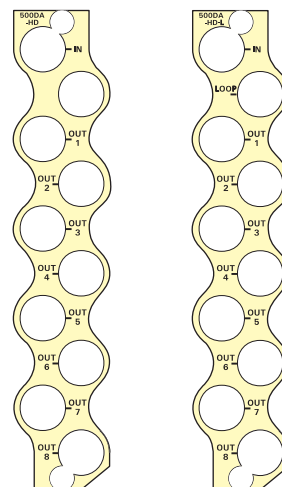
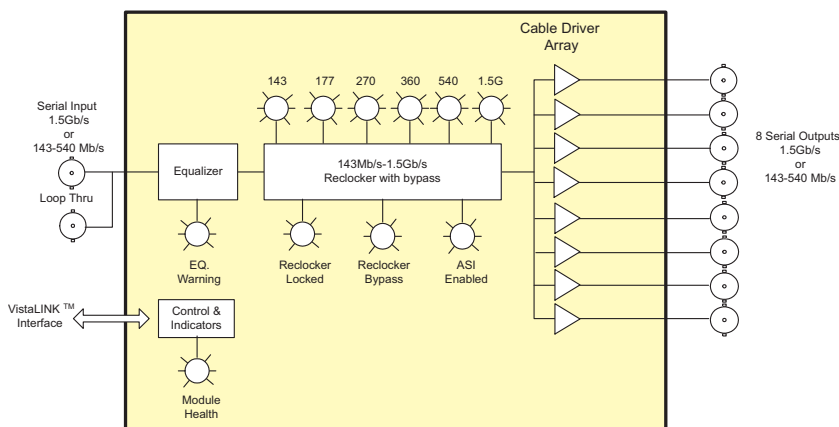
- Independent isolated output drivers to ensure no cross channel loading effects (i.e. no need to terminate unused outputs)

Card Edge LEDs:

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

- VistaLINK™ -enabled for remote monitoring via SNMP (using VistaLINK™ PRO) when installed in 500FR frame with 500FC VistaLINK™ Frame Controller

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 per IEC 60169-8 Amendment 2 Automatic to 350m @ 270Mb/s, 110m @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 60169-8 Amendment 2

Signal Level:

800mV nominal

DC Offset:

0V ±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)

500DA-HD-L

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

Enclosure:

500FR

exponent

Compact High Density Distribution Frame
Compact High Density Distribution Frame with
Loop Thru (500DA-HD-L only)
Standalopne enclosure

500FR-L

S501FR