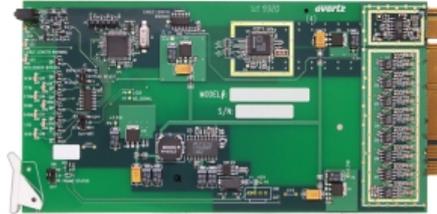


500DA-HD *exponent*

Combo HD/SD SDI Reclocking Distribution Amplifier



The Evertz 500DA-HD Reclocking Distribution Amplifier provides reliable distribution of your HDTV and serial digital video signal at rates of 1.5 Gb/s and 143 Mb/s to 540 Mb/s in applications where a large quantity of outputs are required. 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

- Normal mode for SMPTE 259M (143 to 540 Mb/s) or SMPTE 292M (1.5 Gb/s) signals - auto detects correct bitrate
- Jumper selectable mode for DVB-ASI or SMPTE 310M
- Jumper selectable for Non-Reclock mode
- 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)
- Tally output on Frame Status bus upon loss of input signal for quality monitoring

Specifications

Serial Video Input:

Standard:	SMPTE 292M, SMPTE 259M A, B, C, D (143 to 540 Mb/s), SMPTE 310M or DVB-ASI
Connector:	BNC input per IEC 169-8
Equalization:	Automatic to 110m @ 1.5 Gb/s with Belden 1694 (or equivalent)
Return Loss:	> 15 dB up to 1.0 Gb/s > 10 dB 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 ±0.5V
Rise and Fall Time:	200ps nominal
Overshoot:	< 10% of amplitude
Return Loss:	> 15 dB up to 1.0 Gb/s > 10 dB up to 1.5 Gb/s
Wideband Jitter:	< 0.2 UI

Electrical:

Voltage:	+12VDC
Power:	5 Watts
EMI/RFI:	Complies with FCC Part 15 Class A, EU EMC Directive

Physical:

Number of Slots:	1
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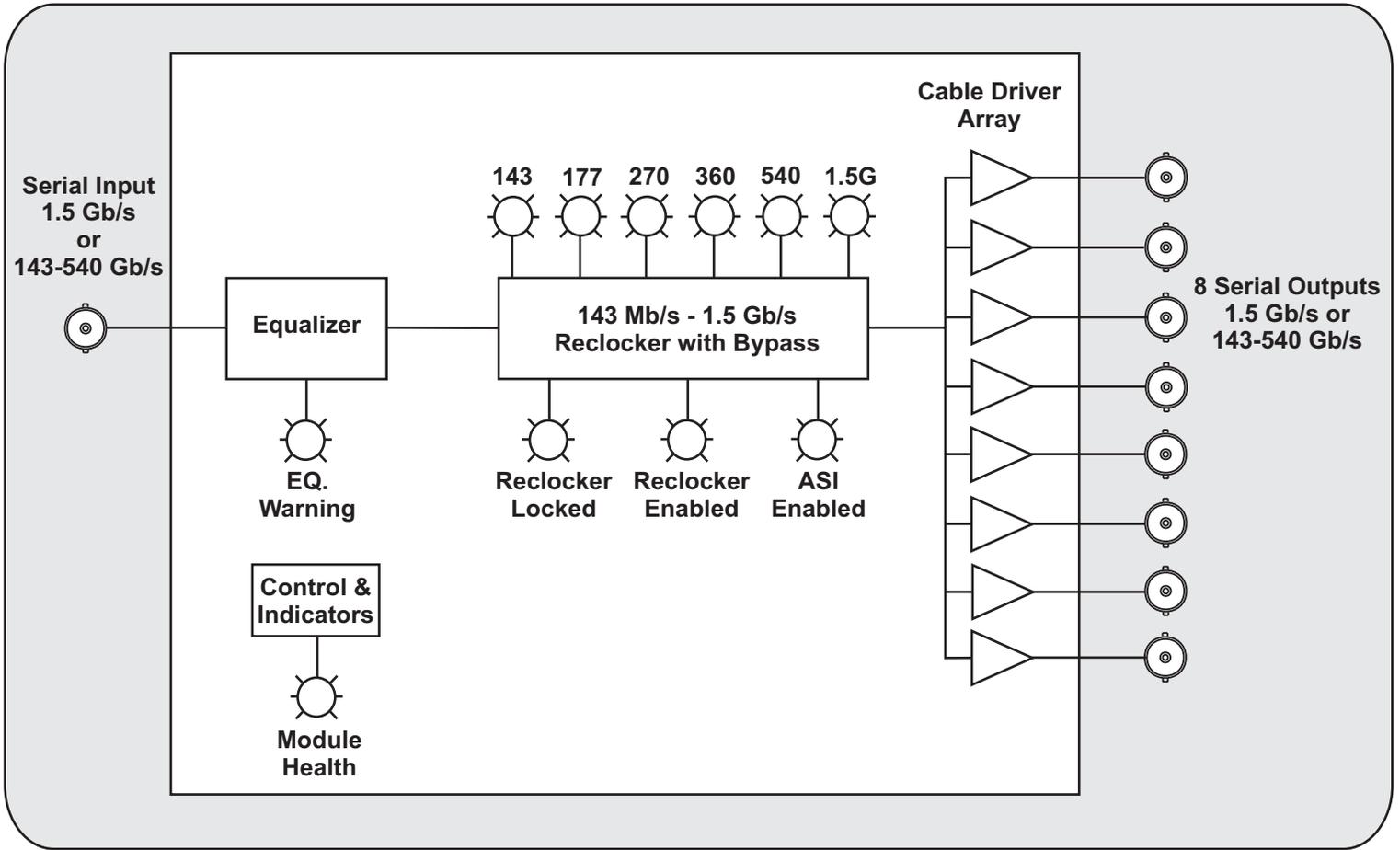
Ordering Information:

500DA-HD:	Combo HD/SD SDI Reclocking Distribution Amplifier (1 x 8)
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Enclosures:

500FR:	<i>exponent</i> Compact High Density Distribution Frame
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500DA-HD Block Diagram



500DA-HD Rear Panel

