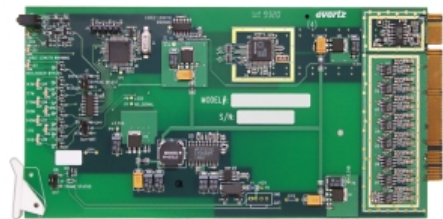


**500DA-HD *exponent***  
**Combo HD/SD SDI Reclocking Distribution Amplifier**



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:**

<b>Standard:</b>	SMPTE 292M, SMPTE 259M A, B, C, D (143 to 540 Mb/s), SMPTE 310M or DVB-ASI
<b>Connector:</b>	BNC input per IEC 169-8
<b>Equalization:</b>	Automatic to 110m @ 1.5 Gb/s with Belden 1694 (or equivalent)
<b>Return Loss:</b>	> 15 dB up to 1.0 Gb/s > 10 dB up to 1.5 Gb/s

**Serial Video Outputs:**

<b>Number of Outputs:</b>	8 Reclocked
<b>Connector:</b>	BNC per IEC 169-8
<b>Signal Level:</b>	800mV nominal
<b>DC Offset:</b>	0V ±0.5V
<b>Rise and Fall Time:</b>	200ps nominal
<b>Overshoot:</b>	< 10% of amplitude
<b>Return Loss:</b>	> 15 dB up to 1.0 Gb/s > 10 dB up to 1.5 Gb/s
<b>Wideband Jitter:</b>	< 0.2 UI

**Electrical:**

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

**Physical:**

<b>Number of Slots:</b>	1
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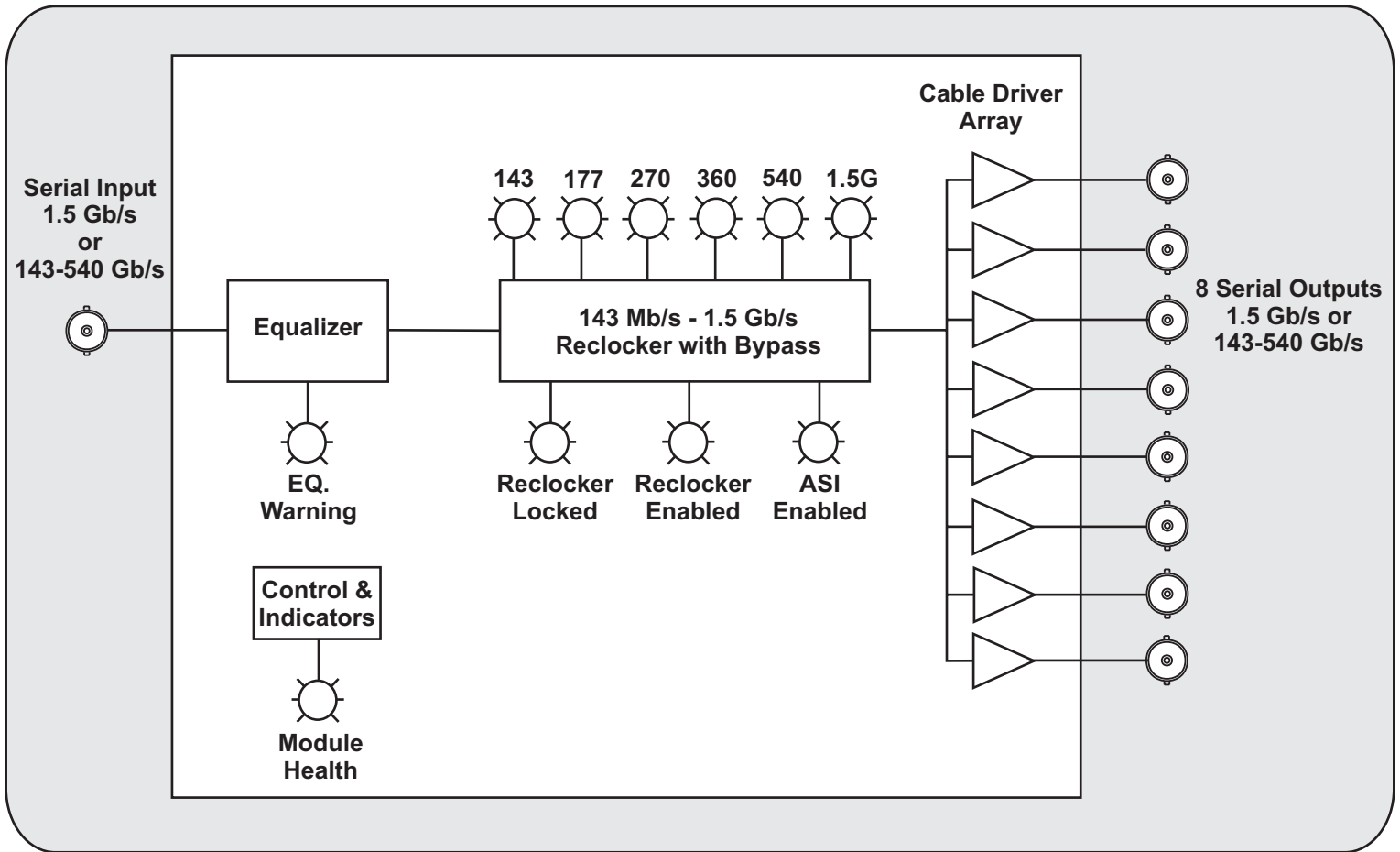
**Ordering Information:**

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

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



## 500DA-HD Rear Panel

