

# 7700DA7

## 143-540Mb/s & DVB-ASI Reclocking, SMPTE 310M Non-reclocking Distribution Amplifier



The 7700 series Distribution Amplifier provides inexpensive distribution of your serial digital video signal at rates of 19.4Mb/s and 143Mb/s to 540Mb/s. The 7700DA7 features an auto-equalized input with seven reclocked outputs.

The 7700DA7 occupies one card slot and can be housed in a 1RU frame that will hold up to four modules, a 3RU frame that will hold up to 15 modules, a 350FR portable frame, which will hold up to seven modules, or a standalone enclosure that will hold one module.

It has been designed for use as a SMPTE 310M (19.4Mb/s), DVB-ASI, M2S or SMPTE ST 259 distribution product. SMPTE 310M support is selected by setting a rate select jumper.

### Features & Benefits

- Supports up to 540Mb/s operation
- DVB-ASI compatible
- Non-reclocking mode for SMPTE 310M
- Features independent isolated output drivers to ensure no cross channel loading effects (i.e. no need to terminate unused outputs)
- VistaLINK® capable for remote monitoring, control and configuration capabilities via SNMP; using VistaLINK® PRO, CP-2116E or CP-2232E Control Panels. VistaLINK® is available when modules are used with the 3RU 7800FR frame and a 7700FC VistaLINK® Frame Controller module in slot 1 of the frame
- Bypass relay protection with +BPRP option

### Input

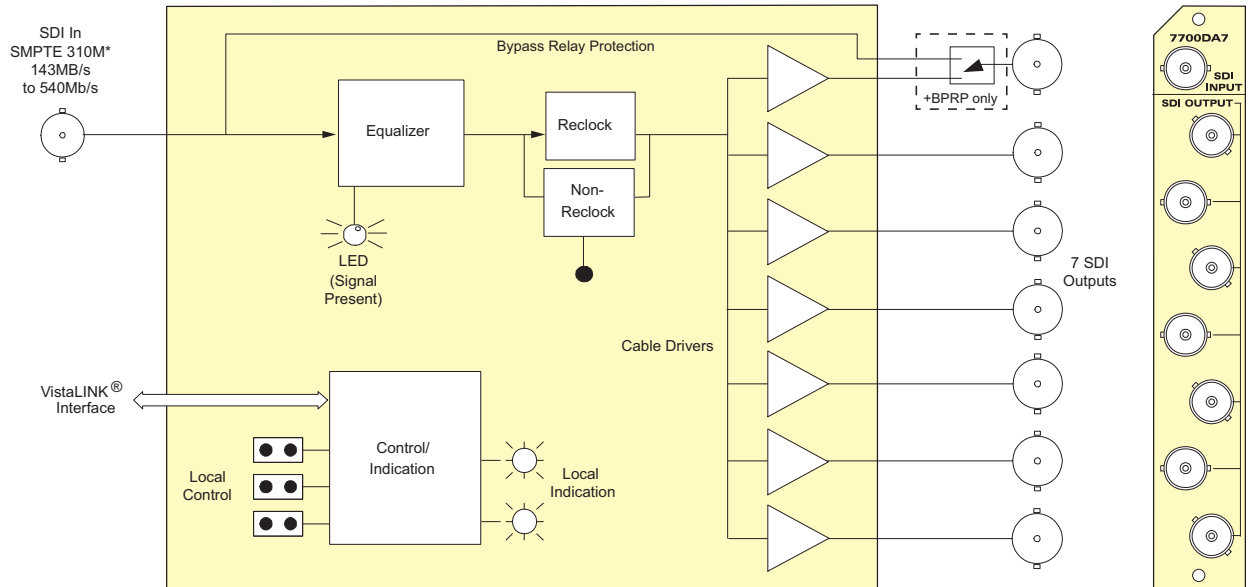
- SMPTE ST 259 (143Mb/s to 540Mb/s), DVB-ASI, M2S, SMPTE 310M (19.4Mb/s) - Non-reclocking mode
- Return loss > 15dB up to 540Mb/s
- 300m auto equalization at 270Mb/s (Belden 8281)
- 210m auto equalization at 540Mb/s (Belden 8281)

### Outputs

- Seven reclocked outputs
- Return loss > 15dB up to 540Mb/s
- Wideband jitter < 0.2 UI

### Card Edge LEDs

- Signal presence
- Module Health Status



\*Note: Non-Reclocking Mode will operate 19.4Mb/s to 540Mb/s

### Specifications

Serial Video Input:		Serial Video Output:		Physical (number of slots):	
Standard:	SMPTE ST 259 A, B, C, D, DVB-ASI, M2S, SMPTE 310M (19.4Mb/s -jumper selected)	Number of Outputs:	7	350FR:	1
Connector:	BNC per IEC 61169-8 Annex A	Connector:	BNC per IEC 61169-8 Annex A	7700FR-C:	1
Equalization:	Automatic to 300m @ 270Mb/s with Belden 8281 (or equivalent)	Signal Level:	800mV nominal	7800FR:	1
Return Loss:	> 15dB up to 540Mb/s	DC Offset:	0V ±0.5V	<b>Electrical:</b>	
		Rise and Fall Time:	740ps nominal	Voltage:	+12V DC
		Overshoot:	< 10% of amplitude	Power:	6W
		Return Loss:	> 15dB up to 540Mb/s	EMI/RFI:	Complies with FCC Part 15, Class A EU EMC Directive
		Wideband Jitter:	< 0.2 UI		

### Ordering Information

Model	Description	Accessories	Enclosures
7700DA7	143-540Mb/s & DVB-ASI Reclocking, SMPTE 310M Non-reclocking Distribution Amplifier	7700FC VistaLINK® Frame Controller CP-2116E-H Remote Control Panel CP-2232E Remote Control Panel	350FR 3RU Portable Multiframe which holds up to 7 single slot modules 7700FR-C 3RU Multiframe which holds up to 15 single slot modules 7800FR 3RU Multiframe which holds up to 15 single slot modules 7801FR 1RU Multiframe which holds up to 4 single or 2 dual slot modules S7701FR Standalone Enclosure
<b>Ordering Options</b>	Rear Plate must be specified at time of order (Eg: Model +3RU)		
<b>+BPRP</b>	Bypass relay protection for output 1		
<b>Rear Plate Suffix</b>			
<b>+3RU</b>	3RU Rear Plate for use with 350FR, 7700FR-C or 7800FR Multiframe		
<b>+SA</b>	Standalone Enclosure Rear Plate		

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