



The 7700 HD series Distribution Amplifiers provide reliable distribution of your 1.5 Gb/s HDTV and 270Mb/s Standard Definition serial digital signal. The 7700DA7-HD features one auto-equalized input with seven reclocked outputs. The 7700DA7-HD is housed in the Evertz 7700FR-C Multiframe, which is available in either a 3RU or 1RU version. The DA has been designed to reclock at 1.5Gb/s and 270Mb/s. In non-reclocking mode it can be used as a SMPTE 310M or SMPTE 259M/292M distribution product.

Features

- Reclocking mode for SMPTE 292M (1.5 Gb/s), SMPTE 259M (270Mb/s), DVB-ASI or HD/SD auto sensing
- Non-reclocking mode for SMPTE 310M (also SMPTE 259M, 292M)
- VistaLINK® control

Status LEDs:

- Signal presence
- Module Health Status

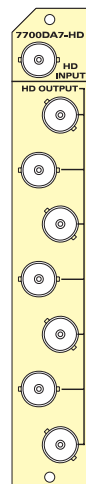
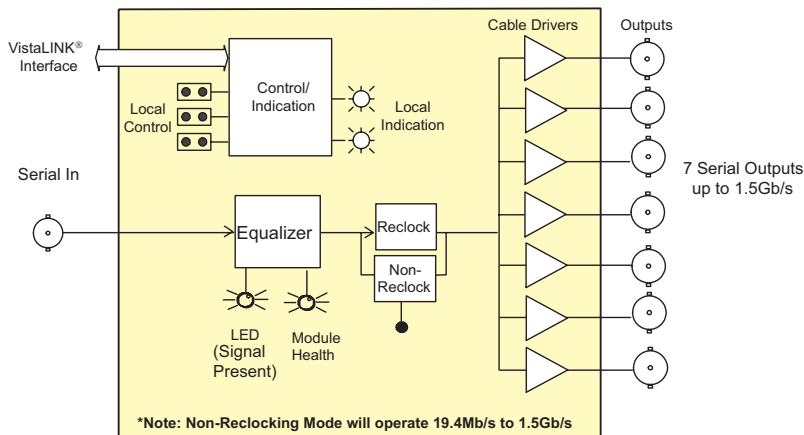
Input:

- SMPTE 292M (1.5 Gb/s) Reclocking mode
- SMPTE259M (270Mb/s) DVB-ASI - Reclocking mode
- SMPTE 310M - Non-reclocking mode
- Auto equalization to 130m (Belden 1694A)

Output:

- 7 reclocked outputs
- Wideband jitter <0.2UI

7700DA7-HD Block Diagram & Rear Panel



Specifications

Serial Video Input:

Standard:	SMPTE 292M, SMPTE 259M-A, B, C, D, DVB-ASI or M2S
In Non-Reclock Mode:	SMPTE 310M (also SMPTE 259M, 292M)
Connector:	1 BNC per IEC 60169-8 Amendment 2
Equalization:	Automatic to 130m @ 1.5Gb/s with Belden 1694A (or equivalent)
Return Loss:	>15dB to 1.56 Gb/s,

Serial Video Outputs:

Number of Outputs:	7 Per Card
Standard:	SMPTE 292M, SMPTE 259M-A, B, C, D M2S, DVB-ASI
In Non-Reclock Mode:	SMPTE 310M (also SMPTE 259M, 292M)
Signal Level:	800mV nominal
DC Offset:	0V ±0.5V
Rise and Fall Time:	200ps nominal
Overshoot:	<10% of amplitude
Return Loss:	>15dB to 1.56 Gb/s
Wideband jitter:	<0.2UI

Physical:

Number of Slots:	1
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Electrical:

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

Ordering Information:

7700DA7-HD	HD/SD Distribution Amplifier, 7 outputs
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Ordering Options

Rear Plate must be specified at time of order
Eg: Model +3RU

Rear Plate Suffix

+3RU	3RU Rear Plate for use with 7700FR-C Multiframe
+1RU	1RU Rear Plate for use with 7701FR Multiframe
+SA	Standalone Enclosure Rear Plate

Enclosures:

7700FR-C	3RU Multiframe which holds 15 modules
7701FR	1RU Multiframe which holds 3 modules
S7701FR	Standalone enclosure

HD SDI Reclocking Distribution Amplifier

7700DA-HD & 7700DA8-HD

The 7700 HD series Distribution Amplifiers provide reliable distribution of your 1.5 Gb/s HDTV serial digital signal. The DA's feature one auto-equalized input with either four or eight reclocked outputs. The 7700 HD DA's are housed in the Evertz Multiframe, which is available in either a 3RU or 1RU version. The DA has been designed to reclock at 1.5Gb/s. However, in non-reclocking mode it can also be used as a SMPTE 292M, SMPTE 310M, DVB-ASI, M2S or SMPTE 259M distribution product.

Features

- Reclocking mode for SMPTE 292M (1.5 Gb/s) signals
- Non-reclocking mode for SMPTE 292M, SMPTE 310M DA (nominal 19.4 Mb/s), SMPTE 259M, DVB-ASI or M2S
- Tally output upon loss of signal for quality monitoring

Status LEDs:

- Signal presence
- Max. Equalization Warning
- Module Health Status

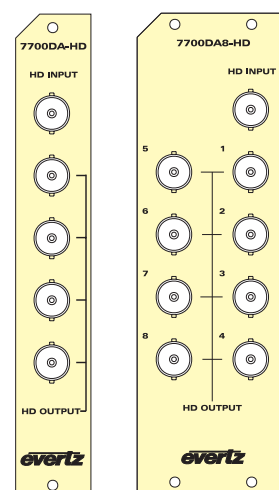
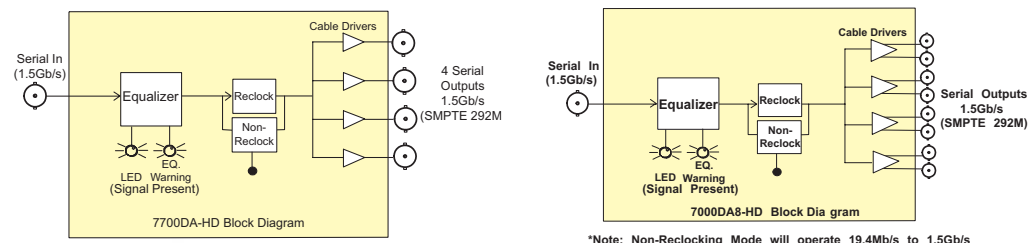
Input:

- SMPTE 292M (1.5 Gb/s) - Reclocking mode
- SMPTE 292M, SMPTE310M, SMPTE259M, M2S or DVB-ASI - Non-reclocking mode
- Auto equalization to 130m (Belden 1694A)

Output:

- 4 or 8 reclocked outputs
- Wideband jitter <0.2UI

7700DA-HD & 7700DA8-HD Block Diagram & Rear Panels



Specifications

Serial Video Input:

Standard: SMPTE 292M
In Non-Reclock Mode: SMPTE 292M, SMPTE 310M, SMPTE 259M-A, B, C, D, DVB-ASI or M2S
Connector: BNC per IEC 60169-8 Amendment 2
Equalization: Automatic to 130m @ 1.5Gb/s with Belden 1694A (or equivalent)
Return Loss: >15dB to 1.0 Gb/s, >12db up to 1.5 Gb/s

Serial Video Outputs:

Number of Outputs: 4 or 8 Per Card
Standard: SMPTE 292M
In Non-Reclock Mode: SMPTE 292M, SMPTE 310M, SMPTE 259M-A, B, C, D, M2S, DVB-ASI
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, >12db up to 1.5 Gb/s
Wideband jitter: <0.2UI

Physical:

Number of Slots: 1 (7700DA-HD)
 2 (7700DA8-HD)

Electrical:

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

Ordering Information:

7700DA-HD HD SDI reclocking DA, 4 outputs
7700DA8-HD HD SDI reclocking DA, 8 outputs

Ordering Options

Rear Plate must be specified at time of order
 Eg: Model +3RU

Rear Plate Suffix

+3RU 3RU Rear Plate for use with 7700FR-C Multiframe
+1RU 1RU Rear Plate for use with 7701FR Multiframe
+SA Standalone Enclosure Rear Plate

Enclosures:

7700FR-C 3RU Multiframe which holds 15 modules
7701FR 1RU Multiframe which holds 3 modules
S7701FR Standalone enclosure