

# HD SDI Reclocking Distribution Amplifier

## Model 7700DA7-HD

The 7700 HD series Distribution Amplifiers provide reliable distribution of your 1.5 Gb/s HDTV 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. However, in non-reclocking mode it can also be used as a SMPTE 310M 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 DA (nominal 19.4 Mb/s to 1.5Gb/s)
- VistaLINK™ control

### Status LEDs:

- Signal presence
- Module Health Status

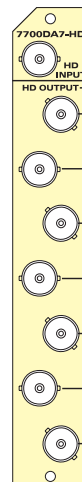
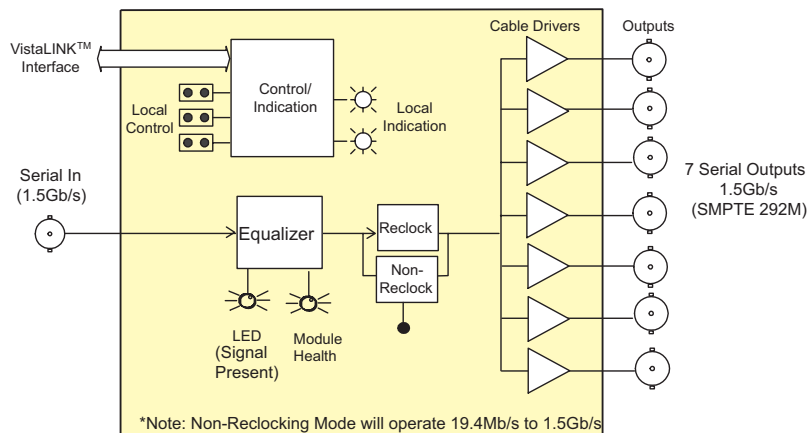
### Input:

- 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 1694)

### Output:

- 7 reclocked outputs
- Wideband jitter <0.2UI

## 7700DA7-HD Block Diagram



## Specifications

### Serial Video Input:

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

### 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 SDI reclocking DA, 7 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                  |