

7700DA7-3G

3G/HD/SD-SDI Reclocking Distribution Amplifier

The 7700DA7-3G reclocking distribution amplifiers provide inexpensive distribution of your SMPTE 424M, SMPTE 292M and SMPTE 259M serial digital video signals at rates of 3Gb/s, 1.5Gb/s and 270Mb/s. The DA supports all other all other SMPTE 344M, SMPTE 259M, SMPTE 310M and DVB-ASI data rates in a non-reclocked mode (540Mb/s, 360Mb/s, 143Mb/s, 19.4Mb/s).

Ideal in applications where a large quantity of outputs is required, the DA features an auto-equalized input with seven isolated reclocked outputs.

The 7700DA7-3G occupies one card slot and can be housed in a 1RU frame which will hold up to 3 modules, a 3RU frame which will hold up to 15 modules, a 350FR portable frame which will hold up to 7 modules or a standalone enclosure that will hold 1 module.

►Features & Benefits

- Normal reclocked mode for SMPTE 424M (3Gb/s), SMPTE 292M (1.5Gb/s) and SMPTE 259M (270Mb/s)
- Remote selectable non-reclocked mode for all other SMPTE 344M, SMPTE 259M, SMPTE 310M and DVB-ASI data rates
- Fully hot-swappable from front of frame with no BNC disconnect required
- Tally output on Frame Status bus upon loss of input signal for quality monitoring
- VistaLINK® -capable for remote monitoring via SNMP (using VistaLINK® PRO) when installed in the 7700FR frame with 7700FC VistaLINK® Frame Controller

Status LEDs:

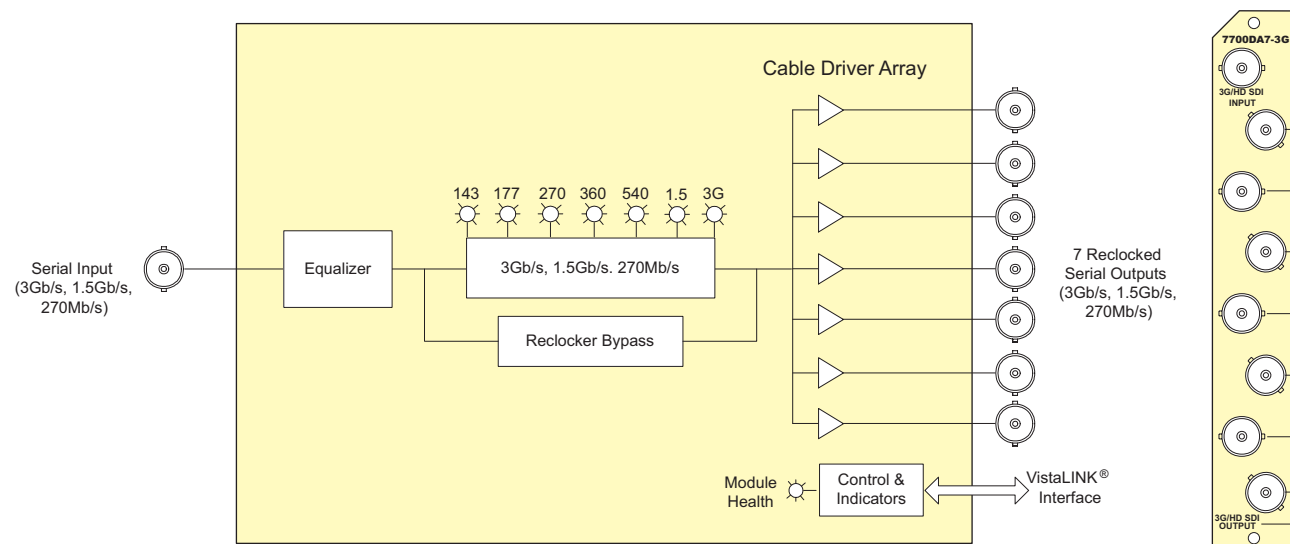
- Detected Signal Rate LEDs
- Control Mode LED
- Module Health Status

Input:

- SMPTE 424M (3Gb/s), SMPTE 292M (1.5Gb/s), SMPTE 259M (270Mb/s) when reclocking
- SMPTE 344M (540Mb/s), SMPTE 259 (360Mb/s, 143Mb/s), SMPTE 310M when not reclocking
- Return Loss > 15dB to 1.5GHz and > 10dB up to 3GHz
- Auto equalization to 80m at 3Gb/s, 140m @ 1.5Gb/s and 350m @ 270Mb/s

Output:

- 7 reclocked outputs
- Wideband jitter < 0.2 UI HD
- Wideband jitter < 0.3 UI 3G



►Specifications

Serial Video Input:

Standards

Reclocked Mode: SMPTE 424M (3Gb/s)
SMPTE 292M (1.5Gb/s)
SMPTE 259M (270Mb/s)

Non Reclocked Mode:

SMPTE 344M (540Mb/s)
SMPTE 259M (360Mb/s, 143Mb/s)
SMPTE 310M (19.4Mb/s), DVB-ASI

Connector: BNC per IEC 61169-8 Annex A

Equalization: Automatic to 80m @ 3Gb/s, 150m @

1.5Gb/s & 350m @ 270Mb/s

Return Loss: > 15dB up to 1.5GHz

> 10dB up to 3GHz

Serial Video Output:

Number of Outputs:

Connector: BNC per IEC 61169-8 Annex A

DC Offset: 0V ± 0.5V

Rise and Fall Time: 150ps @ 3G/HD, 470ps SD

nominal

Wideband Jitter: < 0.2 UI HD

< 0.3 UI 3G

Physical (number of slots):

350FR:

7700FR-C:

7800FR:

1

Electrical:

Voltage:

+12V DC

Power:

5W

EMI/RFI:

Complies with FCC Part 15, Class A
EU EMC Directive

►Ordering Information

7700DA7-3G 3G/HD/SD-SDI Reclocking Distribution Amplifier

Ordering Options Rear Plate and Fiber Connector must be specified at time of order
Eg: Model +SC +3RU

Rear Plate Suffix

+3RU 3RU Rear Plate for use with 350FR, 7700FR-C or 7800FR Multiframe
+1RU 1RU Rear Plate for use with 7701FR Multiframe
+SA Standalone Enclosure Rear Plate

Enclosures:

350FR

7700FR-C

7800FR

7701FR

S7701FR

3RU Portable Multiframe which holds up to 7 single slot modules

3RU Multiframe which holds up to 15 single slot modules

3RU Multiframe which holds up to 15 single slot modules

1RU Multiframe which holds up to 3 single or dual slot modules

Standalone enclosure