

143-540 Mb/s, DVB-ASI, SMPTE 310M Reclocking Distribution Amplifier

Model 7700DA7

The 7700 series Distribution Amplifier provides inexpensive distribution of your serial digital video signal at rates of 19.4 Mb/s and 143 Mb/s to 540 Mb/s. The 7700DA7 features an auto-equalized input with seven reclocked outputs. The 7700DA7 has been designed for use as a SMPTE 310M (19.4 Mb/s), DVB-ASI, M2S or SMPTE 259M distribution product. SMPTE 310M support is selected by setting a rate select jumper.

Features

- 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™ control

Card Edge LEDs:

- Signal presence
- Module Health Status

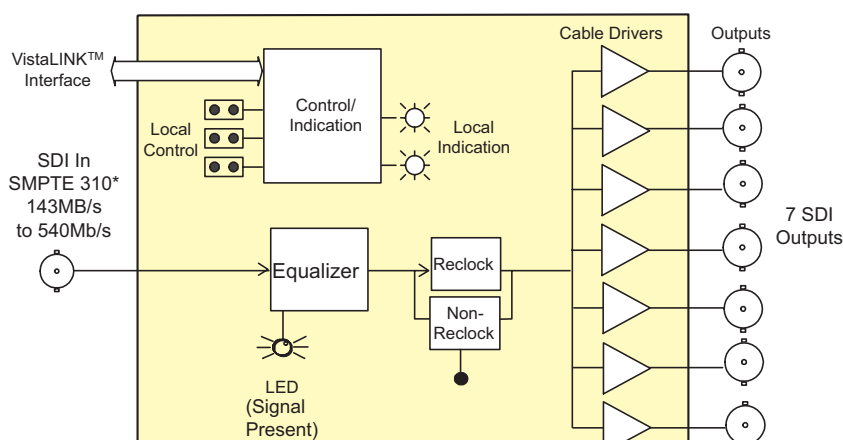
Input:

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

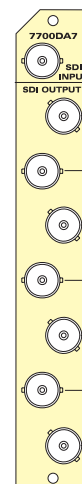
Outputs:

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

7700DA7 Block Diagram



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



Specifications

Serial Video Input:

Standard: SMPTE 259M A, B, C, D, DVB-ASI, M2S, SMPTE 310M (19.4Mb/s-jumper selected)
Connector: BNC per IEC 60169-8 Amendment 2
Equalization: Automatic to 300m @ 270Mb/s with Belden 8281 (or equivalent)
Return Loss: > 15dB up to 540Mb/s

Serial Video Output:

Number of Outputs: 7
Connector: BNC per IEC 60169-8 Amendment 2
Signal Level: 800mV nominal
DC Offset: 0V ± 0.5V
Rise and Fall Time: 740ps nominal
Overshoot: <10% of amplitude
Return Loss: >15 dB up to 540Mb/s
Wideband Jitter: <0.2 UI

Physical:

Number of Slots: 1

Electrical:

Voltage: +12VDC
Power: 6 Watts
EMI/RFI: Complies with FCC Part 15, Class A
EU EMC Directive

Ordering Information:

7700DA7 143-540 Mb/s, DVB-ASI, SMPTE 310M, M2S
Reclocking Distribution Amplifier (with 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