



The 500DA2Q Reclocking Distribution Amplifier provides the highest density DA in the industry allowing up to 32 SD distribution amplifiers in a 3RU rack space. It provides inexpensive distribution of your SMPTE 259M (143 to 360Mb/s), SMPTE 344M (540Mb/s), or SMPTE 310M (19.4Mb/s) signals. The 500DA2Q features two auto-equalized inputs and can be configured either as a single DA with eight reclocked outputs or as two separate DAs with four outputs each.

In the case of dual operation, each DA can be individually set via jumpers for either SMPTE 259M/344M or SMPTE 310M reclocking.

The 500DA2Q is housed in the 3RU 500FR **exponent** frame that will hold up to 16 modules.

Features & Benefits

- Normal mode for SMPTE 259M (143-360Mb/s), SMPTE 344M (540Mb/s) or DVB-ASI signals - autodetects correct bit rate
- Jumper selectable mode for SMPTE 310M (19.4Mb/s) signals
- Configurable as 1 DA with 8 outputs or 2 DAs with 4 outputs each
- Fully hot-swappable from front of frame with no BNC disconnect required
- Independent isolated output drivers to ensure no cross channel loading effects (i.e. no need to terminate unused outputs)
- Module health and 2x4 Mode status LEDs
- Reclocker(s) Locked, Cable Length Warning and Video Standard LEDs for each DA channel
- Tally output on Frame Status bus upon loss of input signal
- VistaLINK® capable for remote monitoring via SNMP (using VistaLINK® PRO) when installed in 500FR frame with 500FC VistaLINK® Frame Controller

- Return loss > 15dB up to 540Mb/s
- 300m auto eq. at 270Mb/s (Belden 8281)
- 210m auto eq. at 540Mb/s (Belden 8281)

Outputs

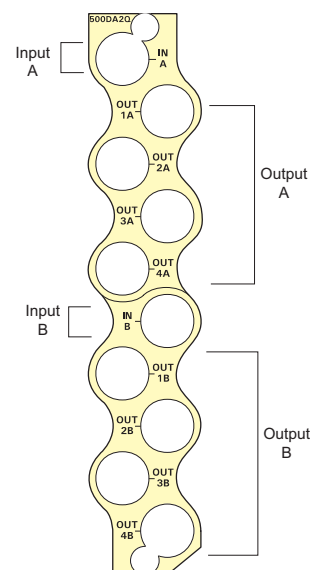
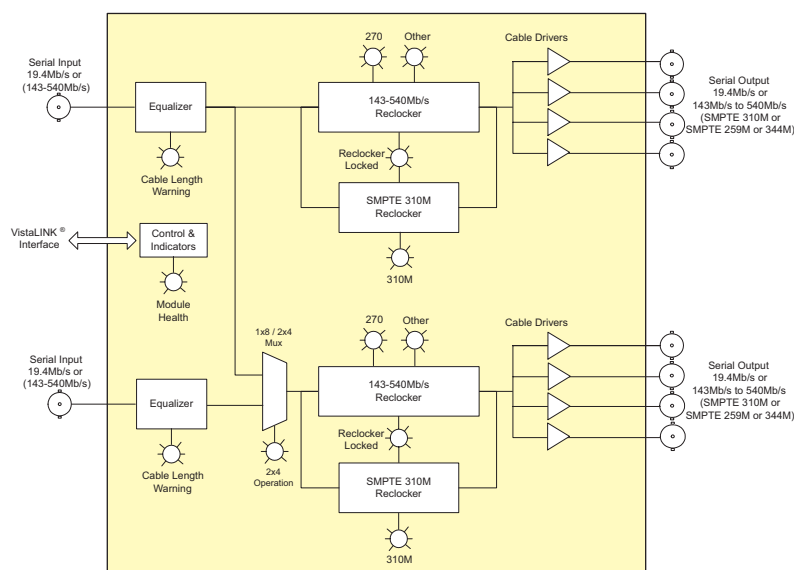
- 4 reclocked outputs per input
- Return loss > 15dB up to 540Mb/s
- Jitter < 0.2 UI

Card Edge LEDs

- Module Health Status
- 2x4 mode operation
- Reclocker rate (detection)
- Reclocker Locked
- Max. Equalization Warning

Inputs

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



Specifications

Serial Video Input:

- Standards:
- Reclocked: SMPTE 259M (143 to 360Mb/s), SMPTE 344M (540Mb/s), SMPTE 310M (19.4Mb/s) DVB-ASI
 - Non-reclocked: Any SD signal in the 143Mb/s to 540Mb/s range
- Connectors: 2 BNC per IEC 60169-8 Amendment 2
- Equalization: Automatic to 400m @ 270Mb/s with Belden 1694A or equivalent cable (325m in mixed HD/SD frame applications)
- Return Loss: > 15dB up to 270Mb/s

Serial Video Output:

- Number of Outputs(mode set by jumper):
- 2x4 Mode: 4 reclocked from each input
 - 1x8 Mode: 8 reclocked from Input A (1)
- Connector: BNC per IEC 60169-8 Amendment 2
- Signal Level: 800mV nominal
- DC Offset: 0V ±0.5V
- Rise & Fall Time: 740ps nominal
- Overshoot: < 10% of amplitude
- Return Loss: > 15dB up to 270Mb/s
- Jitter: < 0.2 UI

Physical:

- Number of slots: 1

Electrical:

- Voltage: +12V DC
- Power: 6W
- EMI/RFI: Complies with FCC Part 15 Class A EU EMC Directive

Ordering Information

500DA2Q Dual Reclocking Distribution Amplifier (2-1x4)

Enclosures
500FR **exponent** Compact High Density Distribution Frame
S501FR Standalone enclosure