

500DA2Q-3G

3G/HD/SD-SDI Dual Reclocking Distribution Amplifier (32-1x4 DA's in 3RU Rack Space)

The 500DA2Q-3G Dual 3G/HD/SD-SDI Reclocking Distribution Amplifier provides the highest density DA in the industry allowing up to 32-3Gb/s, HD-SDI or SD-SDI Distribution amplifiers in a 3RU rack space. This module provides inexpensive distribution of your SMPTE 424M (3Gb/s), SMPTE 292M (1.5Gb/s), SMPTE 259M (270Mb/s), DVB-ASI or SMPTE 310M (19.4Mb/s) or any other SDI signal within the 143Mb/s to 1.5Gb/s range.

The 500DA2Q-3G features two auto-equalized inputs and can be individually set via jumpers for either reclocking or non-reclocking.

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

►Features & Benefits

- Normal reclocked mode for SMPTE 424M (3Gb/s), SMPTE 292M (1.5Gb/s) and SMPTE 259M (270Mb/s)
- Jumper 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
- Independent isolated output drivers to ensure no cross channel loading effects (i.e. no need to terminate unused outputs)
- Outputs maintain polarity from input to output for DVB-ASI applications
- 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 500FR frame with 500FC VistaLINK® Frame Controller

- SMPTE 344M (540Mb/s), SMPTE 259 (360Mb/s, 143Mb/s), SMPTE 310M (19.4Mb/s), DVB-ASI when not re-clocking
- Return Loss > 15dB to 1.5Gb/s and > 10dB up to 3Gb/s
- Auto equalization to 80m at 3Gb/s, 140m @ 1.5Gb/s and 350m @ 270Mb/s

Outputs

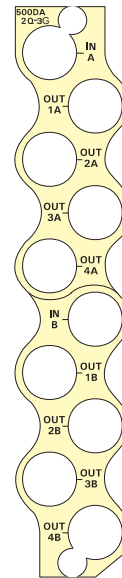
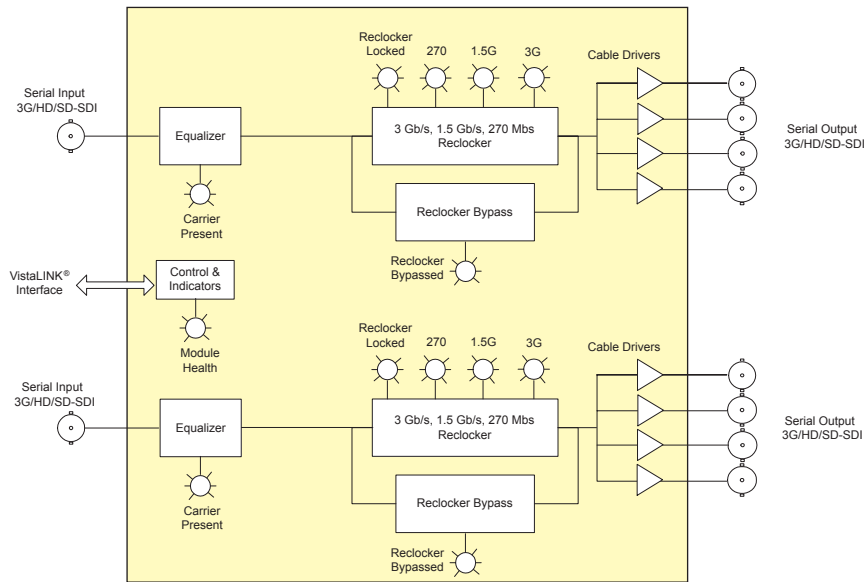
- 4 reclocked outputs per input
- Return Loss > 15dB to 1.5Gb/s
- Wideband jitter < 0.2 UI

Card Edge LEDs

- Reclocker rate (3 LEDs)
- Reclocker locked
- Reclocker bypass
- Module Health Status

Input

- 2 inputs
- SMPTE 424M (3Gb/s), SMPTE 292M (1.5Gb/s), SMPTE 259M (270Mb/s) when set to re-clocking mode.



►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: 2 BNC per IEC 61169-8 Annex A
Equalization:
Input A: Automatic to 80m @ 3Gb/s, 100m @ 1.5Gb/s and 350m @ 270Mb/s with Belden 1694A or equivalent cable
Input B: Automatic to 70m @ 3Gb/s, 90m @ 1.5Gb/s and 350m @ 270Mb/s with Belden 1694A or equivalent cable
Return Loss: > 10dB up to 3Gb/s

Serial Video Outputs:

Number of Outputs: (mode set by jumper)
2x4 Mode: 4 reclocked from each input. Reclockers can be bypassed separately for each input
Connector: BNC per IEC 61169-8 Annex A
Signal Level: 800mV nominal
DC Offset: 0V ±0.5V
Rise & Fall Time: 200ps nominal
Overshoot: < 10% of amplitude
Return Loss: > 10dB up to 1.5Gb/s
Jitter: < 0.2 UI

Electrical:

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

Physical:

Number of slots: 1

►►►Ordering Information

500DA2Q-3G 3G/HD/SD SDI Dual Reclocking Distribution Amplifier (32-1x4 DA's in 3RU Rack Space)

Enclosures
500FR
S501FR

exponent
Compact High Density Distribution Frame
Standalone enclosure