

500DA2Q-HD

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



The 500DA2Q-HD Dual HD Reclocking Distribution Amplifier provides the highest density DA in the industry allowing up to 32 HD or SDI Distribution amplifiers in a 3RU rack space. It provides inexpensive distribution of your SMPTE 292M (1.5Gb/s), SMPTE 259M (143 to 360Mb/s), SMPTE 344M (540Mb/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-HD 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 reclocking or non-reclocking.

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

Features & Benefits

- Normal mode for SMPTE 292M (1.5Gb/s) SMPTE 259M (143-360Mb/s) or SMPTE 344M (540Mb/s) signals - autodetects correct bit rate
- Jumper selectable mode for DVB-ASI
- Jumper selectable non-reclock mode for SMPTE 310M (19.4Mb/s) signals or any other SDI signal within the 143Mb/s to 1.5Gb/s range
- 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, Carrier Present 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

Inputs

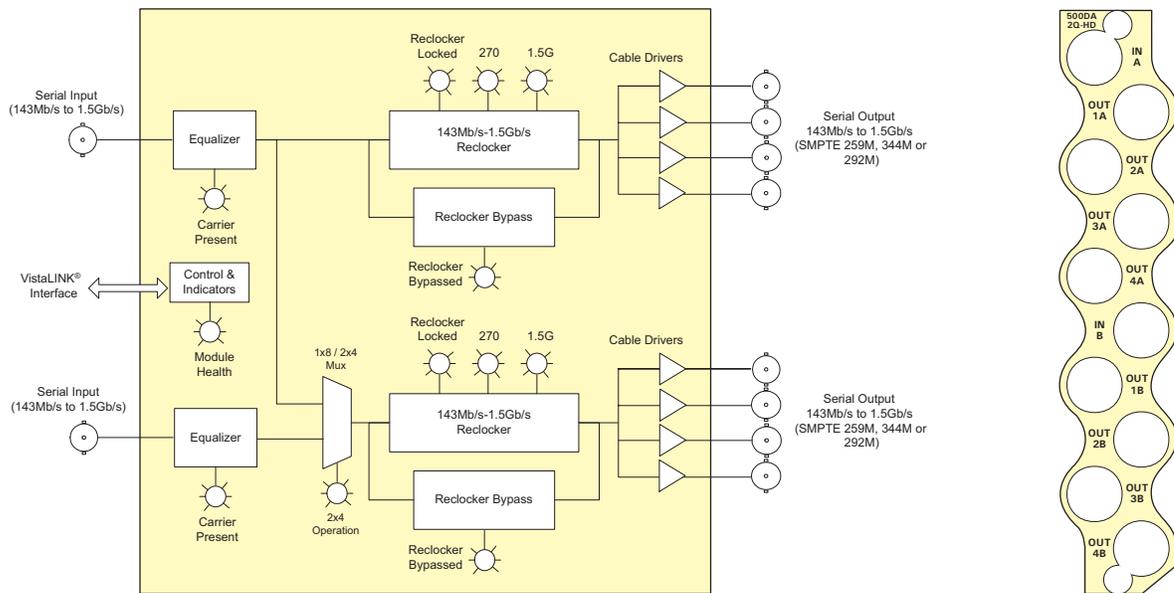
- 2 inputs
- SMPTE 292M (1.5Gb/s), SMPTE 259M (143 to 360Mb/s), SMPTE 344M (540Mb/s), DVB-ASI or SMPTE 310M (19.4Mb/s)
- Auto equalization to 100m Input A, 90m Input B (Belden 1694A) @ 1.5Gb/s

Outputs

- 4 reclocked outputs per input
- Jitter < 0.2 UI

Card Edge LEDs

- Module Health Status
- 2x4 mode operation
- Reclocker rate detection
- Reclocker Locked
- Carrier Present



Specifications

Serial Video Input:

Standards
 Reclocked: SMPTE 292M (1.5Gb/s), SMPTE 259M (143 to 360Mb/s), SMPTE 344M (540Mb/s), DVB-ASI
 Non-reclocked: SMPTE 310M (19.4Mb/s)
 Any SDI signal in the 143Mb/s to 1.5Gb/s range
 Connectors: 2 BNC per IEC 60169-8 Amendment 2
 Equalization:
 Input A: Automatic to 100m @ 1.5Gb/s with Belden 1694A or equivalent cable
 Input B: Automatic to 90m @ 1.5Gb/s with Belden 1694A or equivalent cable
 Return Loss: > 10dB up to 1.5Gb/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
 1x8 Mode: 8 reclocked from Input A (1)
 Reclockers can be bypassed
 Connector: BNC per IEC 60169-8 Amendment 2
 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-HD HD/SD SDI Dual Reclocking Distribution Amplifier (2-1x4)

Enclosures
 500FR
 S501FR

exponent
 Compact High Density Distribution Frame
 Standalone enclosure