

# 500DA2Q-HD-N

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

The 500DA2Q-HD-N Dual HD/SD-SDI Non-Reclocking Distribution Amplifier provides the highest density DA in the industry allowing up to 32 HD-SDI or SD-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) or any other SDI signal within the 143Mb/s to 1.5Gb/s range.

The 500DA2Q-HD-N features two auto-equalized inputs and can be configured either as a single DA with eight non-reclocked outputs or as two separate DAs with four outputs each. The 500DA2Q-HD is housed in the 500FR exponent frame that will hold up to 16 modules.

### Features & Benefits

- Mode for SMPTE 292M (1.5Gb/s) or SMPTE 259M (143-360Mb/s)
- 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
- Carrier Present 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

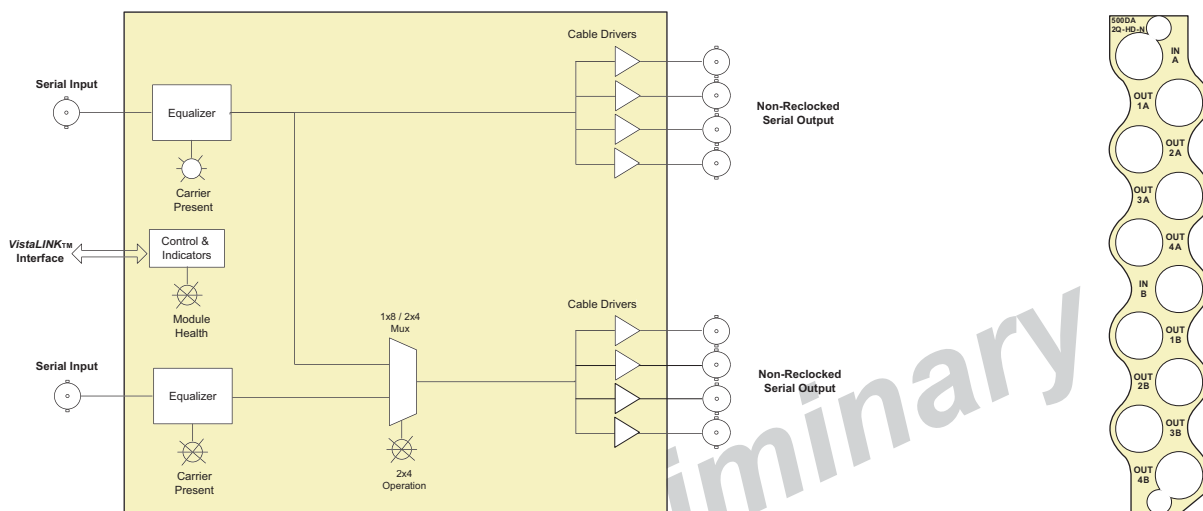
- 2 inputs
- SMPTE 292M (1.5Gb/s) and SMPTE 259M Compliant
- Auto equalization to 100m Input A, 90m Input B (Belden 1694A) @ 1.5Gb/s

#### Outputs

- 4 reclocked outputs per input
- Jitter < 0.2 UI

#### Card Edge LEDs

- Module Health Status
- 2x4 mode operation
- Carrier Present



### Specifications

#### Serial Video Input:

Standards: 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 non-reclocked from each input  
1x8 Mode: 8 non-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: 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-N** HD/SD-SDI Dual Non-Reclocking Distribution Amplifier (32 1x4 DA's in 3RU Rack Space)

#### Enclosures:

##### exponent

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