

The 500DA-3G reclocking distribution amplifier provides inexpensive distribution of your SMPTE 424M, SMPTE ST 292-1 and SMPTE ST 259-1 serial digital video signals at rates of 3Gb/s, 1.5Gb/s and 270Mb/s. The DA supports all other all other SMPTE ST 344-1, SMPTE ST 259-1, SMPTE ST 310-1 and DVB-ASI data rates in a non-reclocked mode (540Mb/s, 360Mb/s, 143Mb/s, 19.4Mb/s).

Ideal in applications where a large quantity of outputs are required, the DA features an auto-equalized input with eight isolated reclocked outputs.

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

►Features & Benefits

- Normal reclocked mode for SMPTE ST 424 (3Gb/s), SMPTE ST 292-1 (1.5Gb/s) and SMPTE ST 259-1 (270Mb/s)
- Jumper selectable non-reclocked mode for all other SMPTE ST 344-1, SMPTE ST 259-1, SMPTE ST 310-1 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 (ie. 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 ST 344-1 (540Mb/s), SMPTE ST 259-1 (360Mb/s, 143Mb/s), SMPTE ST 310-1 (19.4Mb/s), DVB-ASI when not re-clocking
- Return Loss > 15dB to 1.5GHz and > 10dB up to 3GHz
- Auto equalization to 65m @ 3Gb/s, 100m @ 1.5Gb/s, 350m @ 270Mb/s

Outputs

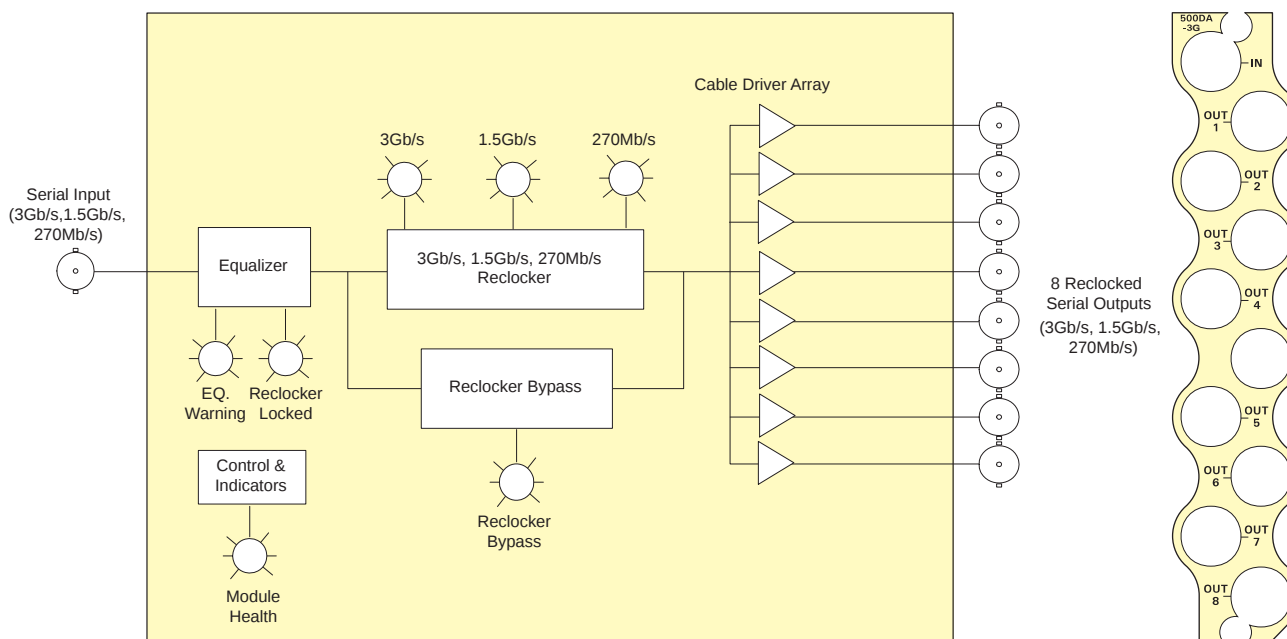
- Eight reclocked outputs
- Return Loss > 15dB to 1.5GHz
- Wideband jitter < 0.2 UI

Card Edge LEDs

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

Input

- SMPTE ST 424 (3Gb/s), SMPTE ST 292-1 (1.5Gb/s), SMPTE ST 259-1 (270Mb/s) when re-clocking



►Specifications

Serial Video Input:		Return Loss:	> 15dB up to 1.5GHz > 10dB up to 3GHz	Electrical:	
Reclocked Mode:	SMPTE ST 424 (3Gb/s) SMPTE ST 292-1 (1.5Gb/s) SMPTE ST 259-1 (270Mb/s)	Serial Video Output:		Voltage:	+12V DC
Non Reclocked Mode:	SMPTE ST 344-1 (540Mb/s) SMPTE ST 259-1 (360Mb/s) 143Mb/s SMPTE ST 310-1 (19.4Mb/s), DVB-ASI	Number of Outputs:	8 Reclocked	Power:	5W
Connector:	BNC per IEC 61169-8 Annex A	Connector:	BNC per IEC 61169-8 Annex A	EMI/RFI:	Complies with FCC Part 15 Class A and EU EMC directive
Equalization:	Automatic to 65m @ 3Gb/s, 100m @ 1.5Gb/s, 350m @ 270Mb/s	DC Offset:	0V ± 0.5V	Physical (number of slots):	
		Rise and Fall Time:	135ps @ 3G 270ps @ HD 700ps @ SD nominal	1	
		Return Loss:	> 15dB up to 1.5GHz		
		Wideband Jitter:	< 0.2 UI HD < 0.3 UI 3G		

►Ordering Information

500DA-3G	3G/HD/SD-SDI Reclocking Distribution Amplifier - (1x8)
Accessories	
500FC	VistaLINK® Frame Controller
CP-2116E-H	Remote Control Panel
CP-2232E	Remote Control Panel

Enclosures
500FR
S501FR

exponent
Compact High Density Distribution Frame
Standalone enclosure

The 500DA-3G reclocking distribution amplifier provides inexpensive distribution of your SMPTE 424M, SMPTE 292M and SMPTE 259M serial digital video signals at rates of 3Gb/s, 1.5Gb/s and 270Mb/s. The DA supports all other all other SMPTE 344M, SMPTE 259M, SMPTE 310M and DVB-ASI data rates in a non-reclocked mode (540Mb/s, 360Mb/s, 143Mb/s, 19.4Mb/s).

Ideal in applications where a large quantity of outputs are required, the DA features an auto-equalized input with eight isolated reclocked outputs.

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

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- 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 (ie. 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

Input

- SMPTE 424M (3Gb/s), SMPTE 292M (1.5Gb/s), SMPTE 259M (270Mb/s) when re-clocking
- SMPTE 344M (540Mb/s), SMPTE 259 (360Mb/s, 143Mb/s), SMPTE 310M (19.4Mb/s), DVB-ASI when not re-clocking

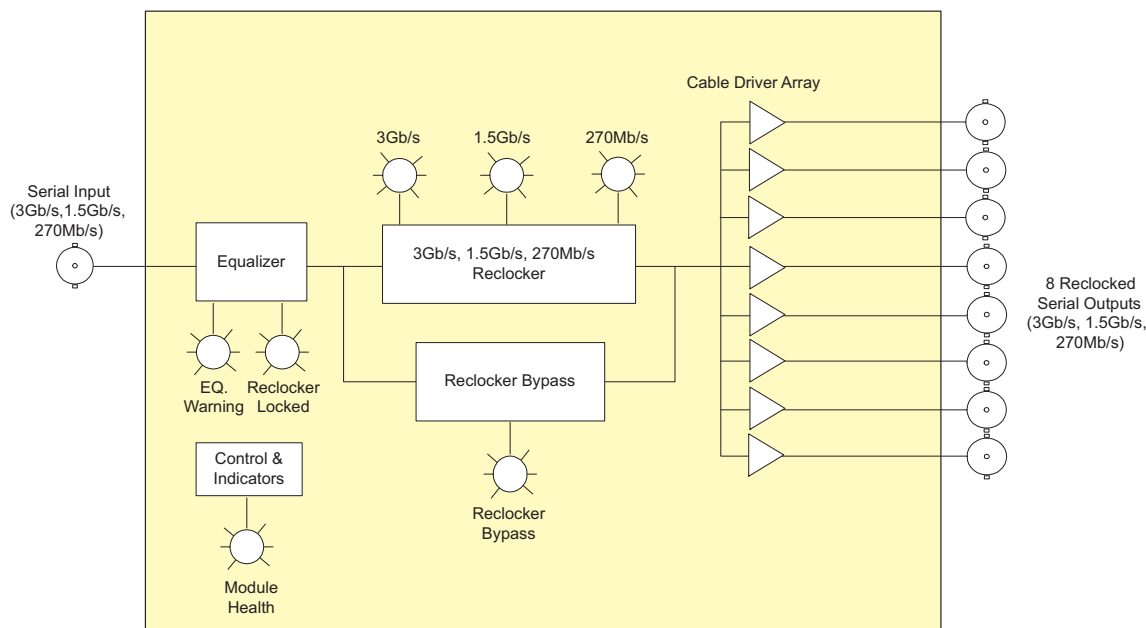
- Return Loss > 15dB to 1.5GHz and > 10dB up to 3GHz
- Auto equalization to 80m at 3Gb/s, 140m @ 1.5Gb/s and 350m @ 270Mb/s

Outputs

- 8 reclocked outputs
- Return Loss > 15dB to 1.5GHz
- Wideband jitter < 0.2 UI

Card Edge LEDs

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



►Specifications

Serial Video Input:

- 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: BNC per IEC 61169-8 Annex A
- Equalization: Automatic to 65m @ 3Gb/s, 125m @ 1.5Gb/s & 350m @ 270Mb/s
- Return Loss: > 15dB up to 1.5GHz
> 10dB up to 3GHz

Serial Video Output:

- Number of Outputs: 8 Reclocked
- Connector: BNC per IEC 61169-8 Annex A
- DC Offset: 0V ± 0.5V
- Rise and Fall Time: 135ps @ 3G
270ps @ HD
700ps @ SD nominal
- Return Loss: > 15dB up to 1.5GHz
- Wideband Jitter: < 0.2 UI HD
< 0.3 UI 3G

►Ordering Information

500DA-3G 3G/HD/SD-SDI Reclocking Distribution Amplifier - (1x8)

Enclosures
500FR
S501FR

exponent
Compact High Density Distribution Frame
Standalone enclosure

The 500DA-3G reclocking distribution amplifier provides inexpensive distribution of your SMPTE 424M, SMPTE 292M and SMPTE 259M serial digital video signals at rates of 3Gb/s, 1.5Gb/s and 270Mb/s. The DA supports all other all other SMPTE 344M, SMPTE 259M, SMPTE 310M and DVB-ASI data rates in a non-reclocked mode (540Mb/s, 360Mb/s, 143Mb/s, 19.4Mb/s).

Ideal in applications where a large quantity of outputs are required, the DA features an auto-equalized input with eight isolated reclocked outputs.

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

►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 (ie. 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

Outputs

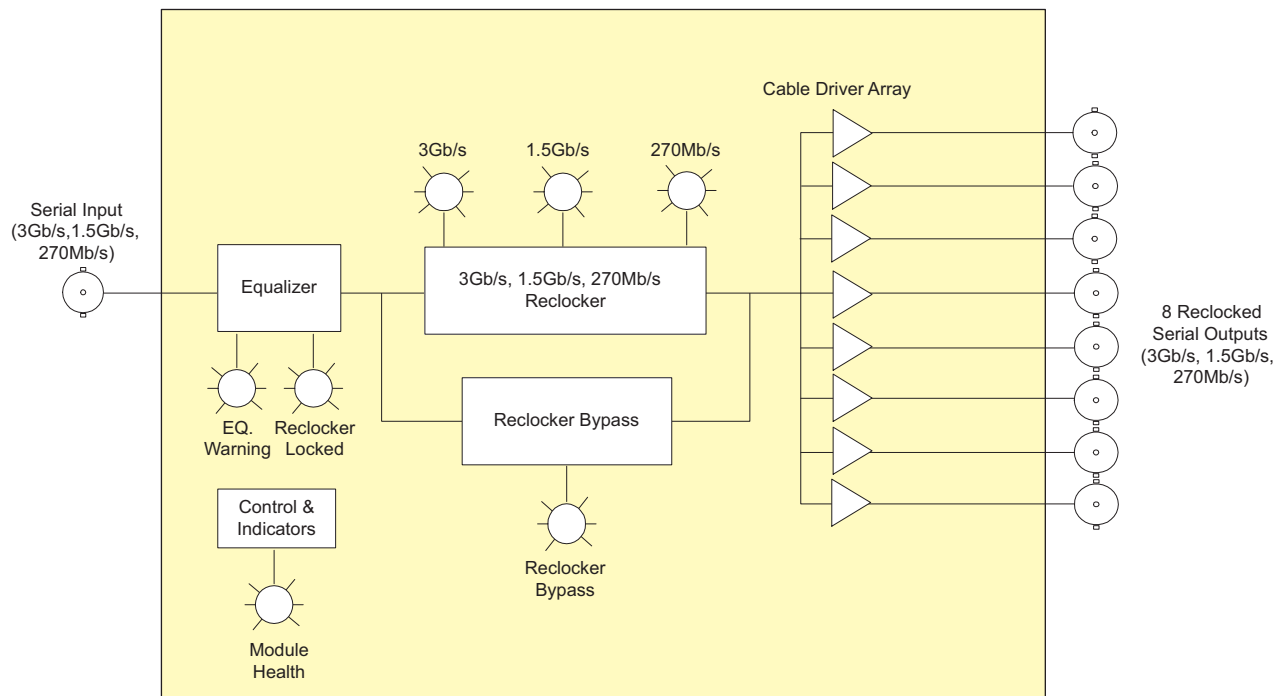
- 8 reclocked outputs
- Return Loss > 15dB to 1.5GHz
- Wideband jitter < 0.2 UI

Card Edge LEDs

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

Input

- SMPTE 424M (3Gb/s), SMPTE 292M (1.5Gb/s), SMPTE 259M (270Mb/s) when re-clocking
- 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 1.5GHz and > 10dB up to 3GHz
- Auto equalization to 80m at 3Gb/s, 140m @ 1.5Gb/s and 350m @ 270Mb/s



►Specifications

Serial Video Input:

- 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:
- BNC per IEC 61169-8 Annex A
- Equalization:
- Automatic to 65m @ 3Gb/s, 125m @ 1.5Gb/s & 350m @ 270Mb/s
- Return Loss:
- > 15dB up to 1.5GHz
 - > 10dB up to 3GHz

Serial Video Output:

- Number of Outputs: 8 Reclocked
- Connector:
- BNC per IEC 61169-8 Annex A
- DC Offset:
- 0V ± 0.5V
- Rise and Fall Time:
- 135ps @ 3G
 - 270ps @ HD
 - 700ps @ SD nominal
- Return Loss:
- > 15dB up to 1.5GHz
- Wideband Jitter:
- < 0.2 UI HD
 - < 0.3 UI 3G

►Ordering Information

500DA-3G 3G/HD/SD-SDI Reclocking Distribution Amplifier - (1x8)

Enclosures
500FR
S501FR

exponent
Compact High Density Distribution Frame
Standalone enclosure



3Gb/s SDI Reclocking Distribution Amplifier (1x8)

The 500DA-3G reclocking distribution amplifier provides inexpensive distribution of your SMPTE 424M, SMPTE 292M and SMPTE 259M serial digital video signals at rates of 3Gb/s, 1.5Gb/s and 270Mb/s. The DA supports all other all other SMPTE 344M, SMPTE 259M, SMPTE 310M and DVB-ASI data rates in a non-reclocked mode (540Mb/s, 360Mb/s, 143Mb/s, 19.4Mb/s).

Ideal in applications where a large quantity of outputs are required, the DA features an auto-equalized input with eight isolated reclocked outputs.

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

►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 (ie. 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

Outputs

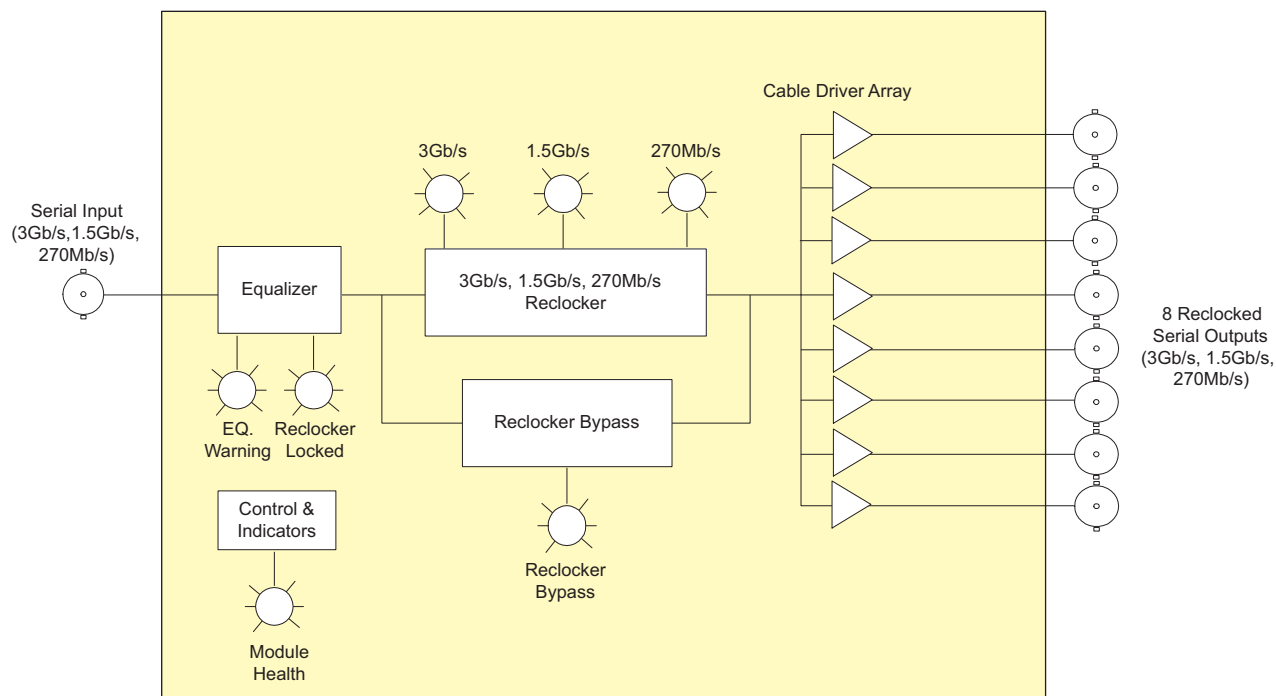
- 8 reclocked outputs
- Return Loss > 15dB to 1.5Gb/s
- Wideband jitter < 0.2 UI

Card Edge LEDs

- Reclocker rate (3 LEDS)
- Reclocker locked
- Reclocker bypass
- Max Equalization Warning
- Module Health Status

Input

- SMPTE 424M (3Gb/s), SMPTE 292M (1.5Gb/s), SMPTE 259M (270Mb/s) when re-clocking
- 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

**►Specifications****Serial Video Input:**

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: BNC per IEC 61169-8 Annex A

Equalization: Automatic to 80m @ 3Gb/s, 140m @ 1.5Gb/s & 350m @ 270Mb/s
Return Loss: > 15dB up to 1.5Gb/s
> 10dB up to 3Gb/s

Serial Video Output:

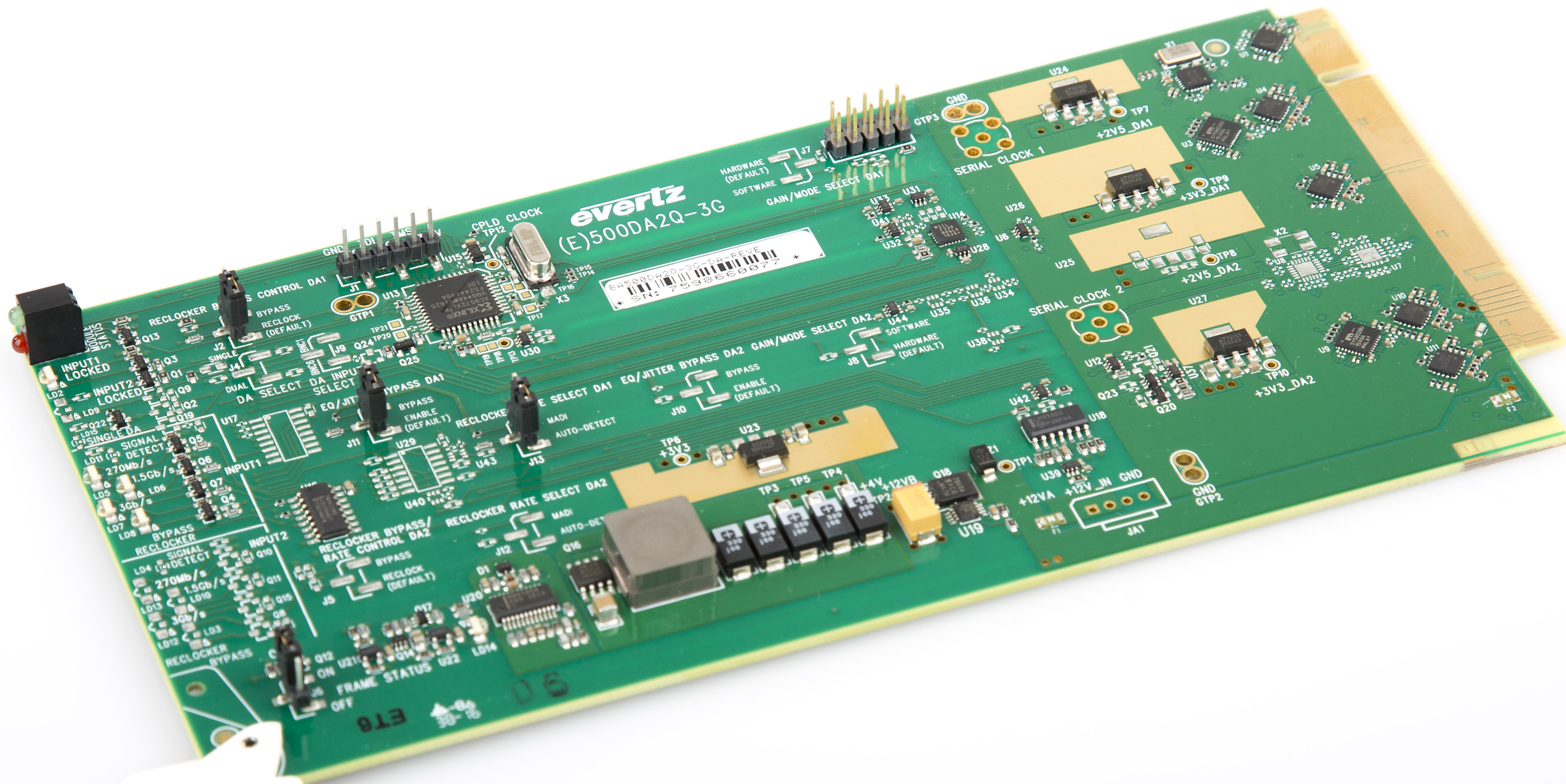
Number of Outputs: 8 Reclocked
Connector: BNC per IEC 61169-8 Annex A
DC Offset: 0V ± 0.5V
Rise and Fall Time: 150ps @ 3G/HD, 470ps SD nominal
Return Loss: > 15dB up to 1.5Gb/s
Wideband Jitter: < 0.2 UI

►►►Ordering Information

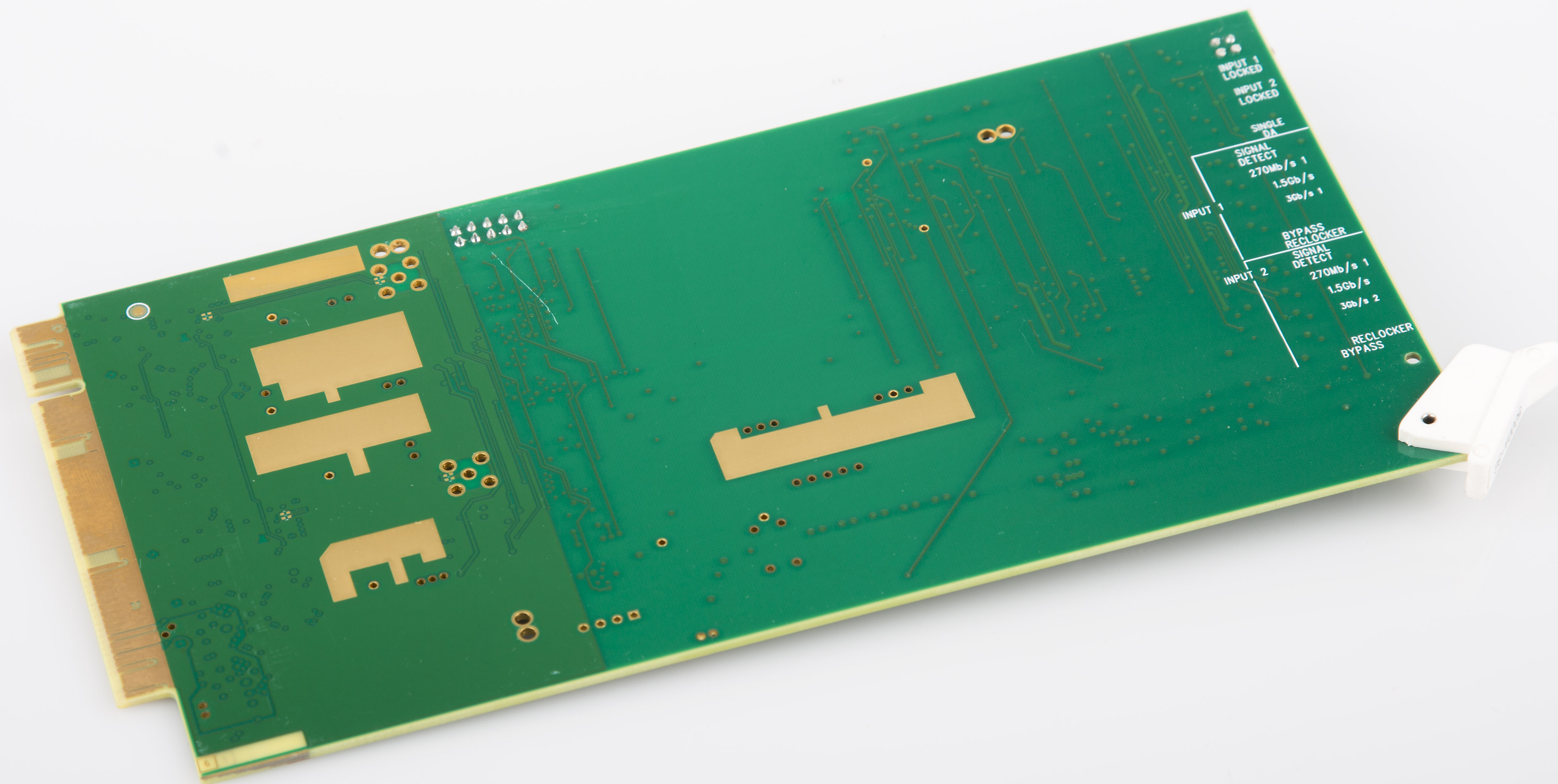
500DA-3G 3Gb/s SDI Reclocking Distribution Amplifier - (1x8)

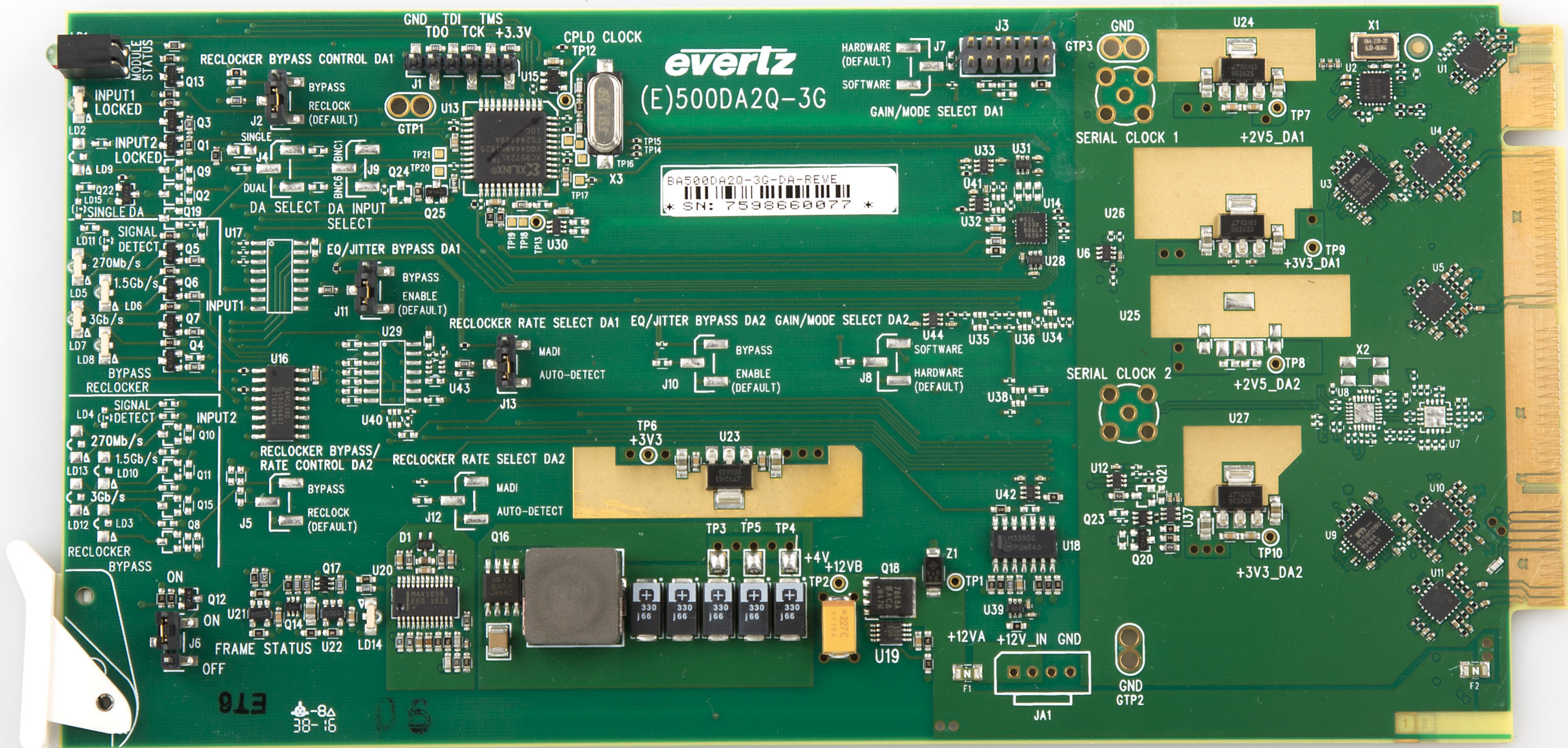
Enclosures
500FR
S501FR

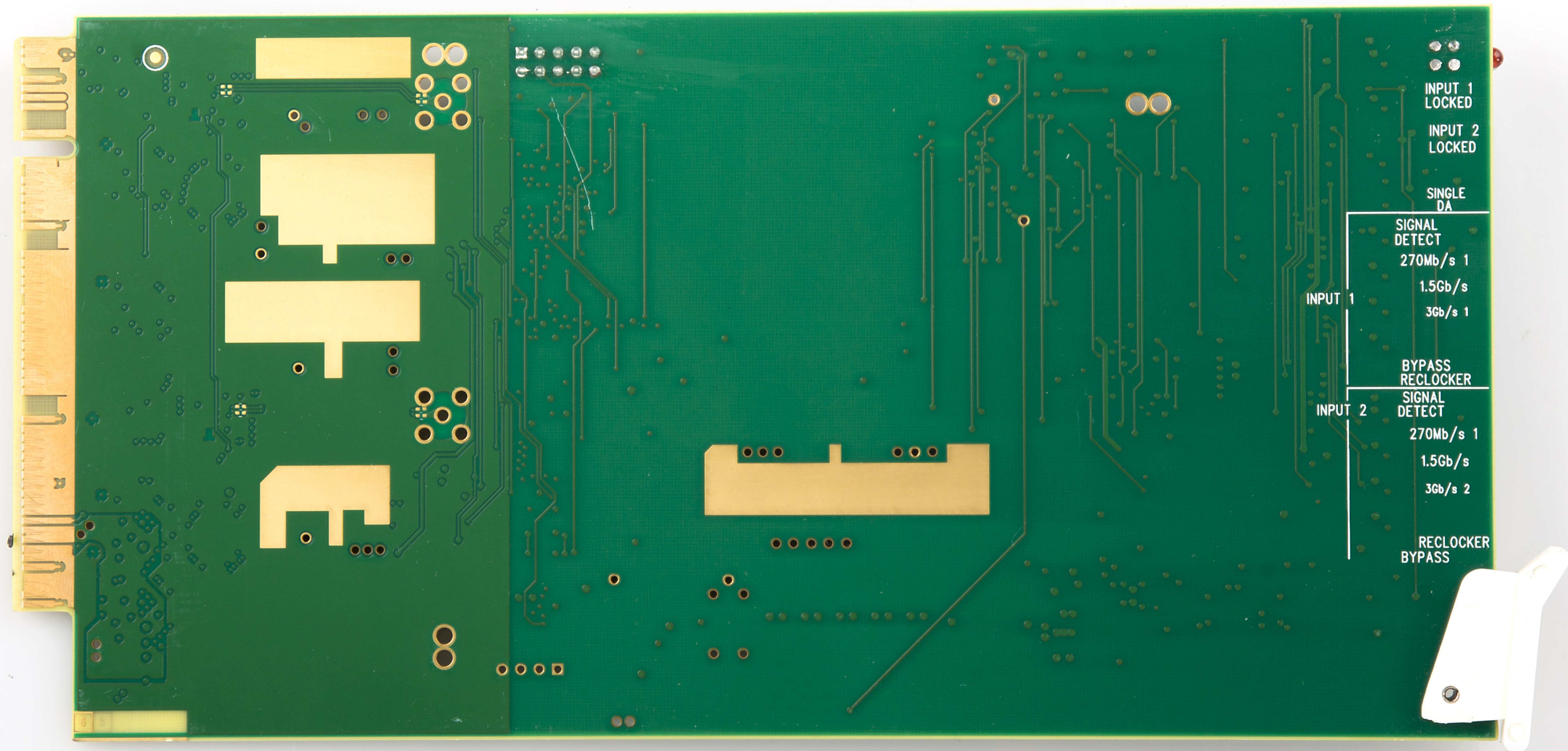
exponent
Compact High Density Distribution Frame
Standalone enclosure



5000A-3G







INPUT 1
LOCKED
INPUT 2
LOCKED

SINGLE
DA

SIGNAL
DETECT
270Mb/s 1
1.5Gb/s
3Gb/s 1

INPUT 1

BYPASS
RECLOCKER
SIGNAL
DETECT

INPUT 2

270Mb/s 1
1.5Gb/s
3Gb/s 2

RECLOCKER
BYPASS

