500DA-HD

HD/SD SDI Reclocking Distribution Amplifier (1x8)

The 500DA-HD Reclocking Distribution Amplifier provides reliable distribution of your HD and SD SDI video signal at rates of 1.5 Gb/s and 143 Mb/s to 540 Mb/s. The DA features an auto-equalized input with eight serial outputs.

The 500DA-HD has been designed for use as a SMPTE 292M (1.5 Gb/s), DVB-ASI, SMPTE 259M, or SMPTE 310M distribution product.

The 500DA-HD DA's are housed in the 3RU 500FR frame that will hold up to 16 modules.

Features & Benefits

- Normal mode for SMPTE 259M (143 Þ 540 Mb/s) or SMPTE 292M (1.5 Gb/s) signals - autodetects correct bitrate
- 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
- 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)
- 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

Specifications

Serial Video Inputs:

Standards:	SMPTE 292M (1.5Gb/s), SMPTE 259M (143 to 360Mb/s), SMPTE 344M (540Mb/s), DVB-ASI
Connector:	1 BNC per IEC 61169-8 Annex A
Equalization:	Automatic to 350m @ 270Mb/s, 110m @ 1.5Gb/s with Belden 1694A (or equivalent)
Return Loss:	> 15dB up to 1.0Gb/s, > 10dB up to 1.5Gb/s

Serial Video Outputs:

Number of Outputs:	8 (Optionally reclocked)
Connector:	BNC per IEC 61169-8 Annex A
Signal Level:	800mV nominal
DC Offset:	0V ±0.5V
Rise and Fall Time:	200ps nominal
Overshoot:	< 10% of amplitude
Return Loss:	> 10dB up to 1.5Gb/s
Wide Band Jitter:	< 0.2 UI

Electrical:

Voltage:	+12V DC
Power:	5W
EMI/RFI:	Complies with FCC Part 15 Class A and EU EMC directive

Physical:

Number of slots:	1

Ordering Information

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

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

The Complete Solution Provider

8 OUTPUT 1 INPUT HD DA BOARD
everlz
(E)500DA-HD
STATUS
LOCK
NO SIGNAL
+3.3V
+4.6V
+12V
GND
CTP2
+3.3VB
CABLE LENGTH
WARNING

everiz
(E)5000A-HD
OUTPUT 1 INPUT HD DA BOARD
5000A-HD

evertz
(E)500DA-HD
8 OUTPUT 1 INPUT HD DA BOARD
CABLE LENGTH WARNING
STANDARD SELECT
BYPASS SELECT
LOCK
NO_SIGNAL
FRAME STATUS
+3.3V
+4.6V
+12V
+3.3VB
GND
GTP2
GTP3
U10
U34
U46
U20
U4
U5
U1
U3
U12
X44
JA1

MODULE STATUS
LOCK
STANDARD SELECT
HD
SD
RECLOCKER BYPASS
BYPASS
BYPASS SELECT
RECLOCK
143M
177M
270M
360M
540M
1.5G
DVB
SUPPORT
LOCK
NO_SIGNAL
evertz
(E)500DA-HD
BA500DA-HD-REVE
SN: 7236640033
+3.3V
+3.3VA
+12VB
+12V
+4.6V
+3.3VB
GND
CABLE LENGTH WARNING
ON
OFF
FRAME STATUS
8 OUTPUT 1 INPUT HD DA BOARD

500DA-HD
8 OUTPUT 1 INPUT HD DA BOARD
everlz
(E)500DA-HD
LOCK
STANDARD SELECT
RECLOCKER BYPASS
BYPASS
RECLOCK
SUPPORT
CABLE LENGTH WARNING
ON
OFF

500DA-HD

GND
GND
ITL 33-0
34-14
ET
LOCK
CARRIER PRESENT
RECLOCKER
BYPASS
143M
177M
270M
360M
540M
1.5G
DVB

GND
GND
33-0
34-14
ET