7707VAR-HD, 7707VAR-U-HD
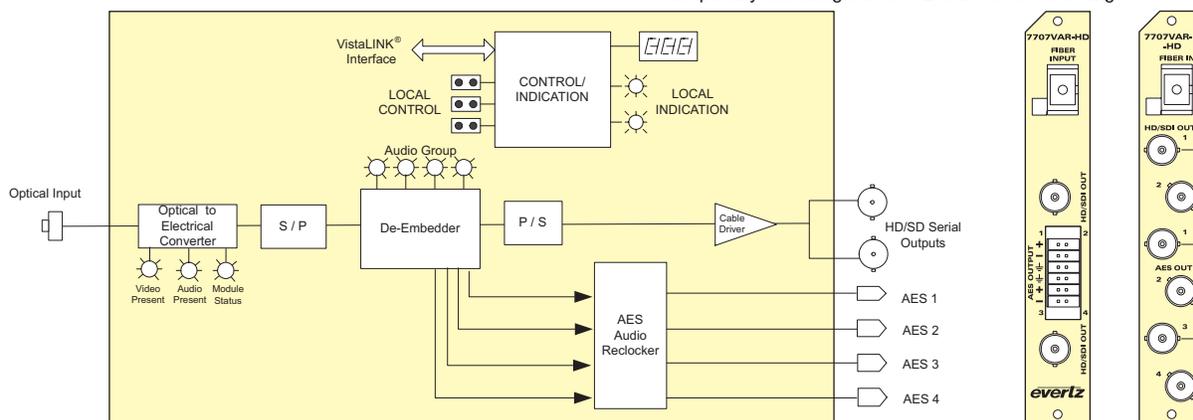## HDTV with 4 AES Audio Fiber Receiver

The 7707VAR-HD is a VistaLINK® -capable fiber optic receiver for HDTV or SDTV video and AES audio signals. This single card module outputs one HD-SDI or SD-SDI video plus four AES audio signals that have been transmitted by the companion 7707VAT-HD fiber optic transmitter.

The 7707VAR-U-HD has unbalanced audio connections and is identical to the 7707VAR-HD in all other aspects.

The 7707VAR-HD occupies one card slot and can be housed in a 1RU frame that will hold up to 3 modules, a 3RU frame that will hold up to 15 modules, a 350FR portable frame that will hold up to 7 modules or a standalone enclosure which holds 1 module.

▶Features & Benefits

- Supports HDTV video formats @ 1.485Gb/s
- Supports 525/625 line component 4:2:2 SDI @ 270Mb/s
- Provides up to four de-embedded AES audio outputs
- Dolby-E® compatible
- Local display of optical signal strength, video and audio presence, video and AES formats
- Fully hot-swappable from front of frame
- Comprehensive signal and card status monitoring via four digit card edge display or remotely through SNMP and VistaLINK®
- VistaLINK® capability is available when modules are used with the 3RU 7800FR or 350FR portable frame and a 7700FC VistaLINK® Frame Controller module in slot 1 of the frame
- Supports single-mode and multi-mode fiber optic cable (contact factory for multi-mode applications)
- Accepts any wavelength in the 1270nm to 1610nm range

▶Specifications

Optical Input:

Number of Inputs:	1
Connector:	Female SC/PC, ST/PC, FC/PC
Return Loss:	> 25dB
Operating Wavelength:	1270nm to 1610nm
Maximum Input Power:	
Standard:	-1dBm
-H version:	-7dBm
Optical Sensitivity:	
Standard:	-23dBm
-H version:	-28dBm

Serial Video Outputs:

Number of Outputs:	2 regenerated
Standard:	SMPTE 292M, SMPTE 259M-C, SMPTE 305M (SDTi), DVB-ASI (without separate audio)
Connector:	1 BNC per IEC 61169-8 Annex A
Signal Level:	800mV nominal
DC Offset:	0V ±0.5V
Rise and Fall Time:	< 270ps for HDSDI, < 900ps for SDI
Overshoot:	< 10% of amplitude
Return Loss:	> 15dB up to 1.485Gb/s
Wide Band Jitter:	< 0.2 UI

AES Audio Outputs:

Number of Signals:	4
Standards:	AES3-2003 (Balanced AES) SMPTE 276M (Unbalanced AES)
Connector:	
7707VAR-HD	12-pin removable terminal strip
7707VAR-U-HD	1 BNC per IEC 61169-8 Annex A
Sampling Rate:	48kHz
Resolution:	Up to 24 bits
Signal Level:	
Balanced:	1V p-p ±0.1V
Unbalanced:	2V p-p ±0.1V Differential
Rise/Fall Times:	
Balanced:	20ns ±5ns
Unbalanced:	35ns ±5ns
Impedance:	
Balanced:	110Ω
Unbalanced:	75Ω
Return Loss:	> 15dB, from 1MHz to 6MHz
Wideband Jitter:	< 10ns p-p, with conditions of minimum to maximum cable length

Electrical:

Voltage:	+12V DC
Power:	11W

Compliance:

Laser Safety:	Class 1 laser product, Complies with 24 CFR 1040.10 and 1040.11, IEC 60825-1
EMI/RFI:	Complies with FCC Part 15, Class A EU EMC directive

Physical (number of slots):

350FR:	1
7700FR-C:	1
7800FR:	1

Transmitter Compatibility Chart:

MODEL #	SD-SDI	HD-SDI
2405/7705/7707EO	x	
2405/7705/7707EO-HD	x	x
7705/7707EO-3	x	
7705/7707EO-3-HD	x	x
7707ADVT	x	
7707ADVT-HD	x	x
7707VAT-HD	x	x
7707VAT-U-HD	x	x

▶Ordering Information

7707VAR-HD	HDTV with 4 AES Audio Fiber Receiver, VistaLINK® Monitoring
7707VAR-U-HD	HDTV with 4 Unbalanced AES Audio Fiber Receiver, VistaLINK® Monitoring
7707VAR-HD-H	HDTV with 4 AES Audio High Sensitivity Fiber Receiver, VistaLINK® Monitoring
7707VAR-U-HD-H	HDTV with 4 Unbalanced AES Audio High Sensitivity Fiber Receiver, VistaLINK® Monitoring

Ordering Options	Rear Plate and Fiber Connector must be specified at time of order Eg: Model +SC +3RU

Rear Plate Suffix	
+3RU	3RU Rear Plate for use with 350FR, 7700FR-C or 7800FR Multiframe
+1RU	1RU Rear Plate for use with 7701FR Multiframe
+SA	Standalone Enclosure Rear Plate

Connector Suffix	
+SC	SC/PC
+SCF	SC/PC connector with flap cover
+ST	ST/PC
+FC	FC/PC

Accessories
Fiber Optic Patch Cable
See CWDM & DWDM Ordering Information Page

Enclosures	
350FR	3RU Portable Multiframe which holds up to 7 single slot modules
7700FR-C	3RU Multiframe which holds up to 15 single slot modules
7800FR	3RU Multiframe which holds up to 15 single slot modules
7801FR	1RU Multiframe which holds up to 4 single or 2 dual slot modules
7701FR	1RU Multiframe which holds up to 3 single or dual slot modules
S7701FR	Standalone Enclosure