

# 7707VAR-HD, 7707VAR-U-HD

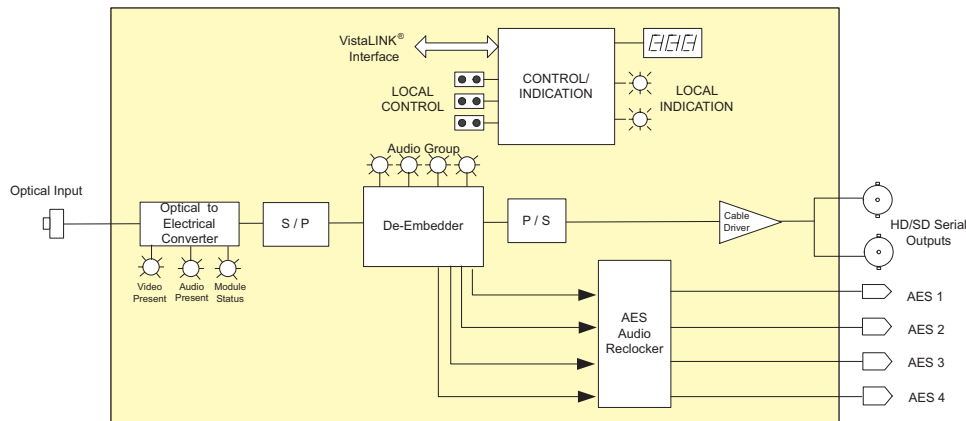
## HDTV with 4 Balanced or Unbalanced AES Audio Fiber Receiver

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.

### ►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
- 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

#### System Performance (7707VAT-HD + 7707VAR-HD):

Video Input To Output Delay: < 35μs  
Audio to Video delay: < 3.3ms with SRC enabled +4ms with audio pop minimization enabled

#### 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  
7701FR 1RU Multiframe which holds up to 3 single or dual slot modules  
S7701FR Standalone Enclosure