Features & Benefits
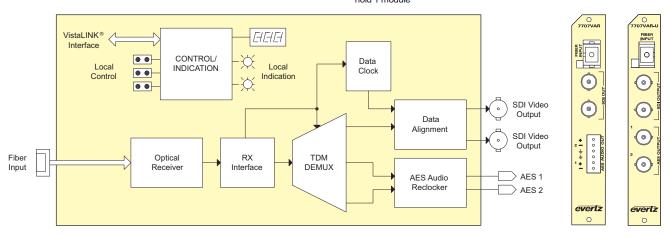
- SDI video and 2 AES audio fiber optic receiver
- Supports 270Mb/s on 525 or 625 line 4:2:2 component SDI and SDTi (SMPTE 305M) video signals
- Supports 32kHz, 44.1kHz, 48kHz AES audio inputs
- Dolby-E® compatible
- Incorporates Evertz SoftSwitch™ (patented) technology for virtually glitch-free AES Audio outputs when upstream SDI or AES feeds are switched
- User-selectable SoftSwitch™ bypass
- Low Audio to Video latency
- Output AES "Mute" on loss of AES or fiber optic input signals
- SDI Video regeneration for jitter reduction
- Comprehensive signal and card status monitoring via four digit card edge display or remotely through SNMP and VistaLINK®

- Output Video "Black" or "Blue" (selectable) on loss of video or fiber optic input signals
- VistaLINK® capability is available when modules are used with the 3RU 7800FR or 350FR frame and a 7700FC VistaLINK® Frame Controller module in slot 1 of the frame
- Local display of optical signal strength, video and audio presence, video and AES formats, EDH errors
- Fully hot-swappable from front of frame with no fiber disconnect/reconnect required
- Supports single-mode and multi-mode fiber optic cable (contact factory for multi-mode applications)
- Accepts any wavelength in the 1270nm to 1610nm range
- Occupies one card slot and can be housed in either a 1RU frame which will hold up to 3 modules, a 3RU frame which will hold up to 15 modules, 3RU portable frame that holds up to 7 modules or a standalone frame which will hold 1 module

Specifications

Optical Input:
Number of Inputs:	1
Connector:	Female SC/PC, ST/PC, FC/PC
Return Loss:	> 25dB
Operating Wavelength:	
	1270nm to 1610nm
Max. Input Power:	0dBm
Optical Sensitivity:	-28dBm

Serial Video Outputs:
Number of Outputs:	2 regenerated
Standard:	SMPTE 259M-C (525 or 625 line component) SMPTE 305M (SDTi)
Connector:	1 BNC per IEC 61169-8 Annex A
Signal Level:	800mV nominal
DC Offset:	0V ±0.5V
Rise and Fall Time:	900ps nominal
Overshoot:	< 10% of amplitude
Return Loss:	> 15dB at 270Mb/s
Wide Band Jitter:	< 0.15 UI

AES Audio Outputs:
Number of Outputs:	2 regenerated
Standard:	Jumper selectable for balanced or unbalanced output
Unbalanced AES:	SMPTE 276M
Balanced AES:	AES3-1992 balanced AES
Connector:	
7707VAR:	6-pin terminal strip
7707VAR-U:	1 BNC per IEC 61169-8 Annex A
Signal Level	
Unbalanced:	1V p-p
Balanced:	5V p-p
Resolution:	up to 24 bits
Sampling Rate:	32kHz, 44.1kHz, 48kHz
Intrinsic Jitter:	< 20ns
Impedance:	
Unbalanced:	75Ω
Balanced:	110Ω

System Performance (7707VAT + 7707VAR):
Video Input To Output Delay:	
	< 1.5μs
Audio to Video delay:	
	< 1μs with SoftSwitch™ disabled
	< 2ms with SoftSwitch™ enabled

Electrical:
Voltage:	+12V DC
Power:	10W
EMI/RFI:	Complies with FCC Part 15, Class A EU EMC Directive

Physical (number of slots):
350FR:	1
7700FR-C:	1
7701FR:	1
7800FR:	1

Ordering Information

7707VAR	SDI with 2 Balanced AES Audio Fiber Receiver, VistaLINK® Monitoring
7707VAR-U	SDI with 2 Unbalanced AES Audio 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
+ST	ST/PC
+FC	FC/PC

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