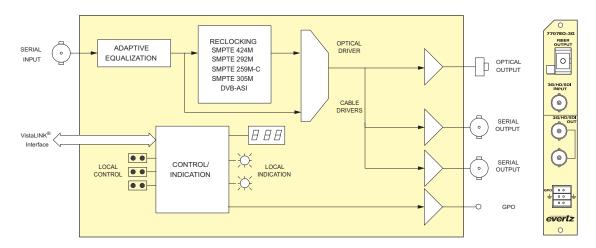**VL**

Features & Benefits

- Supports all SMPTE ST 424M standards at 2.970Gb/s
- Supports all SMPTE ST 292–1 standards at 1.485Gb/s
- Supports SMPTE ST 259–C standards at 270Mb/s
- Supports DVB–ASI (270Mb/s) and SMPTE ST 305M (SDTi) rates
- Auto rate selection, indication and reclocking for SD–SDI/HD/3G data rates from 270Mb/s to 2.970Gb/s
- Selectable non–reclock mode for other data rates
- Programmable general purpose output (GPO)
- Automatic input equalization up to 100m to 1.5Gb/s, 250m to 270Mb/s and 70m to 3Gb/s
- Optical output wavelengths of 1550nm and up to sixteen CWDM wavelengths (ITU–T G.694.2 compliant)

- Supports single–mode and multi–mode fiber optic cable (contact factory for multi–mode applications)
- 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® PRO
- VistaLINK® capability is available when modules are used with a 3RU frame and a 7700FC VistaLINK® frame controller module in Slot 1 of the frame
- Occupies one card slot and can be housed in either a 1RU frame that holds up to three modules, a 3RU frame that holds up to 15x modules, or a standalone enclosure, which holds one module

Specifications

Serial Video Input:

Standards:	
Reclocked:	SMPTE ST 424M, ST 292–1, SMPTE ST 259–C, SMPTE ST 305M, DVB–ASI
Non–Reclocked:	Any bi–level signal type at rates of 270Mb/s to 2.970Gb/s
Connector:	1 BNC per IEC 61169–8 Annex A
Equalization:	Automatic to 100m @ 1.485Gb/s, 70m @ 3Gb/s with Belden 1694A or equivalent cable and 250m @ 270Mb/s with Belden 8281 or equivalent cable
Return Loss:	> 15dB to 1.5GHz
	> 10dB to 3GHz

Serial Video Outputs:

Number of Outputs:	2 per card (>10dB to >3GHz)
Connector:	BNC per IEC 61169–8 Annex A
Signal Level:	800mV ±80mV
DC Offset:	0V ± 0.5V
Rise and Fall Time:	< 135ps (HD/3G)
	< 900ps (SD)

Overshoot:	< 10% of amplitude
Return Loss:	> 15dB to 1.5GHz
	> 10dB to 3GHz
Alignment Jitter:	< 0.2 UI (Reclocked) to 1.485Gb/s
	< 0.3 UI (Reclocked) to 2.97Gb/s

Optical Output:

Standard:	SMPTE ST 297M
Number of Outputs:	1
Connector:	Female SC/PC, ST/PC or FC/PC
Return Loss:	> 14dB
Rise and Fall Time:	< 135ps (HD/3G)
	< 900ps (SD)
Alignment Jitter:	< 0.2 UI (Reclocked) to 1.485 Gb/s
	< 0.3 UI (Reclocked) to 2.97Gb/s
Wavelengths:	See Ordering Information
Output Power:	0dBm ± 1dBm

General Purpose Outputs:

Type:	Dry contact relay closure (normally open)
Number of Outputs:	1
Connector:	Multi–pin removable terminal block
Max. Current:	500mA @ 12V

Electrical:

Voltage:	+12V DC
Power:	8W
EMI/RFI:	Complies with FCC Part 15, Class A EU EMC Directive

Physical (Number of Slots):

350FR:	1
7700FR–C:	1
7800FR:	1

Compliance:

Electrical Safety:	CSA Listed to UL 60065–03, IEC 60065
	Complies with CE low voltage Directive
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

Ordering Information

7707EOxx–3G	3G/HD/SD electrical to optical converter, CWDM DFB laser

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 350FR, 7700FR–C or 7800FR multiframes
+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

Accessories:
Fiber Optic Patch Cable
See CWDM Ordering Information page

Enclosures:

350FR	3RU portable multiframe, holds up to 7x single–slot modules
7700FR–C	3RU multiframe, holds up to 15x single–slot modules
7701FR	1RU multiframe, holds up to 3x single– or dual–slot modules
7800FR	3RU multiframe, holds up to 15x single–slot modules
7801FR	1RU multiframe, holds up to 4x single– or 2x dual–slot modules
S7701FR	Standalone enclosure

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