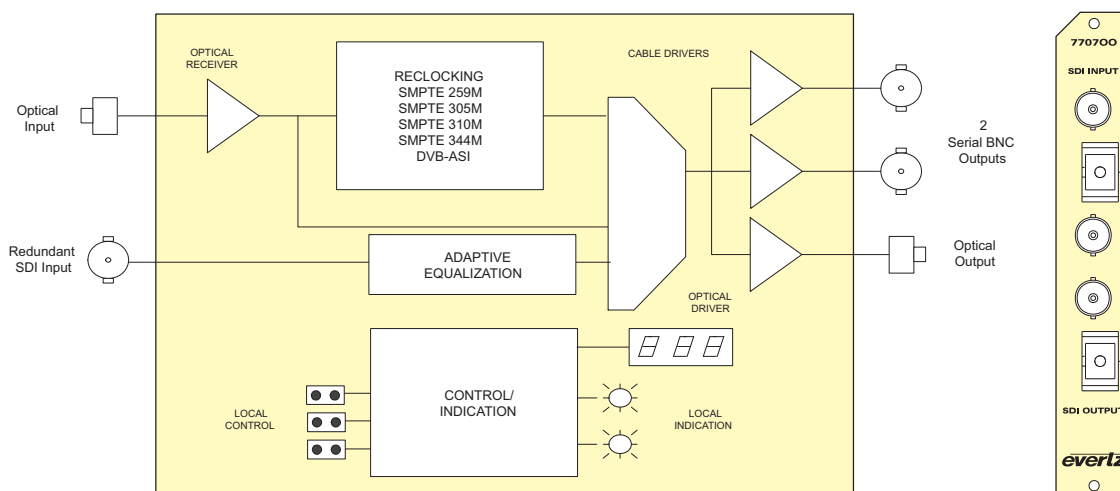




### ► Features & Benefits

- Can be used as optical regenerator/repeater, E to O converter, O to E converter, O to O wavelength converter
- Auto-rate selection, reclocking and indication for all SMPTE ST 259 standards from 143–540Mb/s
- Supports additional standards of SMPTE 305M (SDTi), SMPTE 310M (19.4Mb/s) and M2S or DVB-ASI (270Mb/s)
- Can also support Datacom/Telecom rates up to 540Mb/s
- Coaxial or optical input (jumper selectable)
- Supports single-mode and multi-mode fiber optic cable (contact factory for multi-mode applications)
- Optical output wavelengths of 1310nm, 1550nm and up to sixteen CWDM wavelengths (ITU-T G.694.2 compliant)
- DWDM wavelengths (ITU-T G.694.1 compliant) also available
- Independent isolated output drivers to ensure no cross channel loading effects and to maintain polarity from input to output for DVB-ASI applications
- Comprehensive signal and card status monitoring via four digit card edge display
- Detection and display of optical input power, video format and EDH errors
- Fully hot-swappable from front of frame
- Two BNC serial digital outputs



### ► Specifications

<b>Standards:</b>	SMPTE ST 259 A, B, C, D, SMPTE 297M, SMPTE 305M, SMPTE 310M, DVB-ASI, M2S	<b>Jitter:</b>	<0.15 UI (Reclocked) <0.20 UI (Non-reclocked)	<b>Return Loss:</b>	> 15dB up to 540Mb/s
<b>Optical Input:</b>		<b>Nominal Wavelength:</b>	1310nm, 1550nm	<b>Wide Band Jitter:</b>	< 0.15 UI (Reclocked) < 0.20 UI (Non-reclocked)
<b>Connector:</b>	Female SC/PC, ST/PC, FC/PC	<b>CWDM Wavelengths:</b>	See Ordering Information	<b>Electrical:</b>	
<b>Operating Wavelength:</b>	1270nm to 1610nm	<b>DWDM Wavelengths:</b>	See Ordering Information	<b>Voltage:</b>	+12V DC
<b>Max Input Power:</b>	0dBm	<b>Output Power:</b>	1310nm FP: -7dBm ± 1dBm 1550nm DFB: 0dBm ± 1dBm	<b>Power:</b>	Non-DWDM: 6W DWDM: 9W
<b>Optical Sensitivity:</b>	-31dBm	<b>CWDM DFB:</b>	0dBm ± 1dBm	<b>Physical (number of slots):</b>	
<b>Electrical Video Input:</b>		<b>DWDM DFB:</b>	+7dBm ± 1dBm	350FR: 1	
<b>Normal:</b>	SMPTE ST 259 (143 to 540Mb/s) or DVB/ASI	<b>Electrical Video Outputs:</b>		7700FR-C: 1	
<b>Jumper Selectable:</b>	SMPTE 310M (19.4Mb/s)	<b>Number of Outputs:</b>	2 per card — reclocked (both outputs maintain polarity from input to output for DVB-ASI applications)	7800FR: 1	
<b>Connector:</b>	1 BNC per IEC 61169-8 Annex A	<b>Connectors:</b>	1 BNC per IEC 61169-8 Annex A	<b>Compliance:</b>	
<b>Equalization:</b>	Automatic to 275m @ 270Mb/s with Belden 8281 (or equivalent)	<b>Impedance:</b>	75Ω (nominal)	<b>Laser Safety:</b>	Class 1 laser product Complies with 24 CFR 1040.10 and 1040.11
<b>Return Loss:</b>	>15dB to 540Mb/s	<b>Signal Level:</b>	800mV nominal	<b>IEC 60825-1</b>	
<b>Optical Outputs:</b>		<b>DC Offset:</b>	0V ± 0.5V	<b>EMI/RFI:</b>	Complies with FCC Part 15, Class A EU EMC directive
<b>Connector:</b>	SC/PC, ST/PC, FC/PC female housing	<b>Rise and Fall Time:</b>	900ps nominal		
<b>Return Loss:</b>	>14dB	<b>Overshoot:</b>	< 10% of amplitude		

### ► Ordering Information

<b>77070013</b>	Optical Regenerator / Wavelength Converter for rates to 540Mb/s, 1270nm to 1610nm input, 1310nm FP output
<b>77070015</b>	Optical Regenerator / Wavelength Converter for rates to 540Mb/s, 1270nm to 1610nm input, 1550nm DFB laser output

For CWDM, please refer to the end of the fiber section for ordering information  
**770700xx** Optical Regenerator / Wavelength Converter for rates to 540Mb/s, 1270nm to 1610nm input, CWDM output

For DWDM, please refer to the end of the fiber section for ordering information  
**770700Dxxx** Optical Regenerator / Wavelength Converter for rates to 540Mb/s, 1270nm to 1610nm input, DWDM output

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

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

<b>Connector Suffix</b>	
<b>+SC</b>	SC/PC
<b>+ST</b>	ST/PC

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