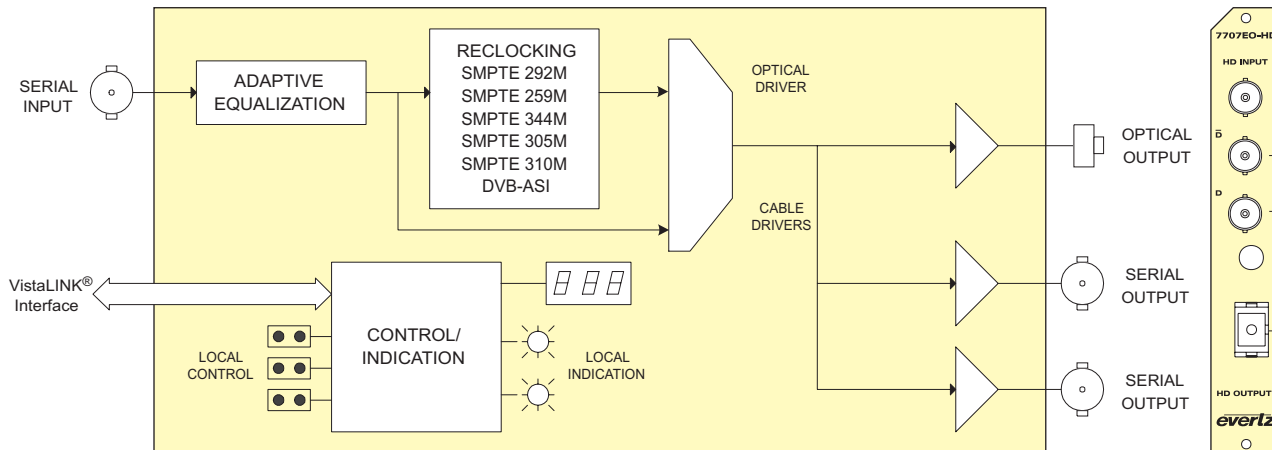


7707EO-HD

HDTV Electrical to Optical Converter, 19.4Mb/s to 1.5Gb/s

►Features & Benefits

- Supports all SMPTE 292M standards at 1.485Gb/s
- Supports all SMPTE 259M standards with operation from 143Mb/s-360Mb/s
- Supports SMPTE 310M (19.4Mb/s), M2S or DVB-ASI (270Mb/s), SMPTE 344M (540Mb/s), and SMPTE 305M (SDTi) rates
- Auto rate selection, indication and reclocking for all SDI and HD-SDI data rates from 143Mb/s to 1.485Gb/s
- Selectable non-reclock mode for other data rates
- Detection and display of equalization strength, video format, and EDH errors (SDI only)
- Automatic coaxial input equalization to 150m for all rates to 1.485Gb/s (Belden 1694A)
- DWDM wavelengths (ITU-T G.694.1 compliant) also available
- Optical output wavelengths of 1310nm, 1550nm, and up to sixteen CWDM wavelengths (ITU-T G.694.2 compliant)
- Supports single-mode and multi-mode fiber optic cable
- 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®
- 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
- 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



►Specifications

Serial Video Input:

Standards:
Reclocked: SMPTE 292M, SMPTE 259M A, B, C, D, SMPTE 344M, SMPTE 305M, DVB-ASI, M2S, SMPTE 310M
Non-Reclocked: Any bi-level signal type at rates of 19.4Mb/s to 1.485Gb/s
Connector: 1 BNC per IEC 61169-8 Annex A
Equalization: Automatic to 150m @ 1.485Gb/s with Belden 1694A or equivalent cable
Return Loss: > 15dB to 1.5GHz

Serial Video Outputs:

Number of Outputs: 2 Per Card (1 output DVB-ASI/M2S compliant)
Connector: 1 BNC per IEC 61169-8 Annex A
Signal Level: 800mV ±80mV
DC Offset: 0V ±0.5V
Rise and Fall Time: < 270ps
Overshoot: < 10% of amplitude
Return Loss: > 12dB to 1.5GHz
Wide Band Jitter: < 0.2 UI (Reclocked)

Optical Output:

Standard: SMPTE 297M
Number of Outputs: 1
Connector: Female SC/PC, ST/PC or FC/PC
Return Loss: > 14dB
Rise and Fall Time: < 270ps
Wide Band Jitter: < 0.2 UI (Reclocked)
Wavelengths: See Ordering Information
Output Power:
1310nm FP: -7dBm ±1dBm
1550nm DFB: 0dBm ±1dBm
CWDM: 0dBm ±1dBm
DWDM: 7dBm ±1dBm

Electrical:

Voltage: +12V DC
Power: 8W (Non DWDM)
11W (DWDM)
EMI/RFI: Complies with FCC Part 15, Class A
EU EMC Directive

Physical (number of slots):

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

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

Receiver Compatibility Chart:

MODEL #	SD-SDI	HD-SDI
2405/7705/7707OE	x	
2405/7705/7707OE-HD	x	x
7705/7707OE-3	x	
7705/7707OE-3-HD	x	x
7707ADV/R	x	
7707ADV/R-HD	x	x
7707VAR-HD	x	x

►Ordering Information

7707EO13-HD HD Electrical to Optical Converter, 1310nm FP Laser
7707EO15-HD HD Electrical to Optical Converter, 1550nm DFB Laser

For CWDM, please refer to the end of the fiber section for ordering information
7707EOxx-HD HD Electrical to Optical Converter, CWDM DFB Laser

For DWDM, please refer to the end of the fiber section for ordering information
7707EODxxx-HD HD Electrical to Optical Converter, DWDM Laser

Connector Suffix

+SC SC/PC
+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

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