

### 3Gbit Fiber Optic / SDI Transceiver (CWDM)

- Supports SDI video up to 3Gbit/s (1080p60)
- Optical receiver and transmitter in single package
- CWDM with 18 wavelengths selections
- Error free optical connections
- Up to 40km (24.8 miles) @ 3Gbit/s
- Duplex LC optical connection
- Supports hot swapping and hot plugging

The OTR 1840 is a CWDM Fiber Optic to SDI transmitter and receiver combined in a compact self contained package. It is a convenient and cost effective solution to combat the restrictions involved with the distribution of uncompressed broadcast quality video signals over long distances.

Each OTR 1840 CWDM tranceiver has an independant transmitter and receiver channel, which provides an effective solution for any SDI signal up to 1080p60 (3Gbit/s) while preserving full uncompressed quality. Select from 18 transmitter wavelengths for full CWDM compatibility (ITU-T G.694.2)

The OTR 1840 will auto-detect any connected video signal from 270Mbit/s to 3Gbit/s according to SMPTE 424M, SMPTE 292M and SMPTE 259M standards, as well as DVB-ASI.

#### Ordering Info:

Note. The **OTR 1840** price **DOES NOT INCLUDE** the fiber transmitter SFP sub module. Please specify the required wavelength from the option list below when ordering. One **MUST** be specified, For example the order needs to separately specify the module **OTR 1840** and an optional fiber Transmitter SFP e.g. **OH-TR-4-1550** (for 1550nm)

#### Non CWDM Option

Wavelength	Power	Option #
1550nm	-1dBm	<b>OH-TR-3-1550</b>

#### CWDM Wavelength Options. ITU-T G.694.2 (select one)

Wavelength	Power	Option #	Wavelength	Power	Option #
1270nm	-1dBm	<b>OH-TR-4-1270</b>	1450nm	-1dBm	<b>OH-TR-4-1450</b>
1290nm	-1dBm	<b>OH-TR-4-1290</b>	1470nm	-1dBm	<b>OH-TR-4-1470</b>
1310nm	-1dBm	<b>OH-TR-4-1310</b>	1490nm	-1dBm	<b>OH-TR-4-1490</b>
1330nm	-1dBm	<b>OH-TR-4-1330</b>	1510nm	-1dBm	<b>OH-TR-4-1510</b>
1350nm	-1dBm	<b>OH-TR-4-1350</b>	1530nm	-1dBm	<b>OH-TR-4-1530</b>
1370nm	-1dBm	<b>OH-TR-4-1370</b>	1550nm	-1dBm	<b>OH-TR-4-1550</b>
1390nm	-1dBm	<b>OH-TR-4-1390</b>	1570nm	-1dBm	<b>OH-TR-4-1570</b>
1410nm	-1dBm	<b>OH-TR-4-1410</b>	1590nm	-1dBm	<b>OH-TR-4-1590</b>
1430nm	-1dBm	<b>OH-TR-4-1430</b>	1610nm	-1dBm	<b>OH-TR-4-1610</b>



### Technical Specifications

<b>SDI Video</b>	1 x SDI video input 1 x SDI Video output 75 Ohm BNC connectors SMPTE 424M, SMPTE 292M, SMPTE 259M, DVB-ASI Multi-standard operation from 270Mbit/s to 3Gbit/s Multi-rate reclocking 270Mbit/s - 1.48Gbit/s - 3Gbit/s Return Loss: > 15dB to 1.5GHz and > 10dB up to 3GHz Automatic cable EQ (Belden 1694A cable) 250m @ 270Mbit/s, 140m @ 1.5Gbit/s, 80m @ 3Gbit/s
<b>Fiber Optic</b>	1 x fiber optic input (Range 1270-1610nm, Sensitivity -3dBm to -19dBm) 1 x fiber optic output (CWDM - 18 selectable wavelengths - ITU-T G.694.2) Duplex (dual Singlemode) using LC/UPC Connections SMPTE 297M - 2006 Hot pluggable TX active LED, and RX active on side of module Single mode transmit / receive (duplex connector) Max. distance 40km (24.8 miles) @ 3Gbit/s (Singlemode)
<b>Power</b>	+12VDC power supply (included) ( supports external power input from 9 - 14 VDC ) Power LED on side of module
<b>Size</b>	105mm x 40mm x 22mm (4.13" x 1.57" x 0.86")
<b>Model #</b>	OTR 1840
<b>Includes</b>	Module, 12V DC power supply, wall mounting brackets and plastic transport case.

#### Fiber Optic Connection

LC to LC Duplex (dual Singlemode) up to 40km (24.8 miles)  
(not included)



Specifications subject to change