

3Gbit Fiber Optic / SDI Transceiver (CWDM)

- Supports SDI video up to 3Gbit/s (1080p60)
- Optical receiver and transmitter in single package
- CWDM with 18 selectable wavelengths
- 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.

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	OH-TR-3-1550

CWDM Wavelength Options (select one)

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



Technical Specifications

SDI Video	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

Fiber Optic	1 x fiber optic input (Range 1270-1610nm, Sensitivity -3dBm to -19dBm) 1 x fiber optic output (CWDM - 18 selectable wavelengths) 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)

Power	+12VDC power supply (included) (supports external power input from 9 - 14 VDC) Power LED on side of module
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Size	105mm x 40mm x 22mm (4.13" x 1.57" x 0.86")
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Model #	OTR 1840
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Includes	Module, 12V DC power supply, wall mounting brackets and plastic transport case.
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Fiber Optic Connection

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

