yellobrik® OTR 1840

3Gbit Fiber Optic / SDI Transceiver (CWDM)

- Optical receiver and transmitter in single package
- Supports SDI video up to 3Gbit/s (1080p60)
- 3Gbit Level A and Level B support (all formats)
- Auto reclocking 270Mbit / 1.5Gbit / 2.97Gbit
- CWDM with 18 wavelength selections
- Error free optical connections
- Up to 40km (24.8 miles) @ 3Gbit/s
- Duplex LC/PC single mode optical connections
- 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 and re-clock any 270Mbit / 1.5Gbit and 3Gbit SDI source prior to conversion. The module is fully compatible with 3Gbit Level A and Level B formats.

Power Adapter Options

The kit **INCLUDES** AC power supply. The power adapters below are optional.

P-TAP 1000
Use with a standard battery P-TAP power source.

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.

CWDM Wavelength Options. ITU-T G.694.2 (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

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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 1260-1620nm, Sensitivity -3dBm to -19dBm) **1 x fiber optic output** (CWDM - 18 selectable wavelengths - ITU-T G.694.2) Duplex (Singlemode) using LC/PC Connections
	SMPTE 297M - 2006
	Hot pluggable
	TX active LED, and RX active on side of module
	Single mode transmit / receive (duplex connector)
	Max. distance approx. 40km (24.8 miles) @ 3Gbit/s (Singlemode)
Power	+12VDC @ 1.9W nominal without SFP +12VDC @ 2.7W nominal with SFP (supports 7 - 16VDC input range)
Physical	Size: 140mm x 42mm x 22mm (5.51" x 1.65" x 0.86") including connectors Weight: 125g (4.4oz)
Ambient	5 - 40ºC (41 - 104ºF) 90% Humidity (non condensing)
Model #	OTR 1840 - (EAN# 4250479318403)
Includes	Module, AC power supply, transport case

Fiber Adapter Options

These adapter kits allow the use of ST or SC fiber connections on the module. SMF 0.5m (19.6") tail introduces less than 0.25dB attenuation.
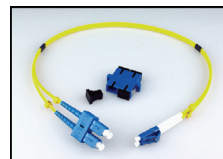
Model# **LC/SC DUP**
LC/PC to SC/PC Adapter
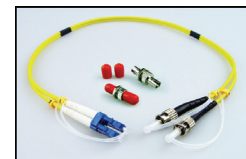
Model# **LC/ST DUP**
LC/PC to ST/PC Adapter

Specifications subject to change