

3G Fiber Optic/SDI Transceiver (CWDM)

- Optical receiver and transmitter in single package
- Supports SDI video up to 3G (1080p60)
- 3G Level A and Level B support (all formats)
- Auto reclocking 270Mbit/s, 1.5Gbit/s, 3Gbit/s
- CWDM with 18 wavelength selections
- Error free optical connections
- Up to 40km* (24.8 miles) @ 3Gbit/s
- Duplex LC/PC singlemode optical connections
- Supports hot swapping and hot plugging

The OTR 1840-1 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 1840-1 CWDM transceiver has an independent transmitter and receiver channel, which provides an effective solution for any SDI signal up to 3G (1080p60) while preserving full uncompressed quality. Select from 18 transmitter wavelengths for full CWDM compatibility (ITU-T G.694.2)

The OTR 1840-1 will auto-detect and re-clock any 270Mbit/s, 1.5Gbit/s, and 3Gbit/s SDI source prior to conversion. The module is fully compatible with 3G Level A and Level B formats.

Note: This yellobrik **DOES NOT INCLUDE** the fiber SFP module. Please specify the required SFP option from the option list.



Technical Specifications

SDI Video	1 x SDI input on 75 Ohm BNC connectors		
	1 x SDI output on 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 - 1.5Gbit/s - 3Gbit/s		
	Electrical Return Loss:	to 1.5GHz >15dB	to 3GHz: >10dB
	Automatic cable EQ:	270Mbit/s	1.5Gbit/s
		250m	220m
			150m
	Belden 1694A cable		

Fiber Optic	1 x fiber optic input, 1 x fiber optic output	
	Duplex (Singlemode) using LC/PC Connections	
	SMPTE 297M - 2006	
	Transmitter	Wavelength: See CWDM Wavelength Options
		Optical Power: See CWDM Wavelength Options
	Receiver	Wavelength: 1260nm to 1620nm
		Sensitivity: See CWDM Wavelength Options
	Max. distance*	40km(24.8miles) @3Gbit/s
	TX & RX active LEDs on side of module	

Power +12V DC @ 2.0W nominal with SFP - (supports 7 - 24V DC input range)

Power LED on side of module

Physical	Size	140mm x 42mm x 22mm
	(incl. connectors)	(5.51" x 1.65" x 0.86")
	Weight:	125g (4.4oz)

Ambient 5 - 40°C (41 - 104°F) 90% Humidity (non condensing)

Model # OTR 1840-1 EAN# 4250479318403

Includes Module, AC power supply

*Distance is an approximation. Actual distances achieved can be longer or shorter depending on the type of cable. Determine link losses and perform optical budget calculations to ensure correct operation.

CWDM Wavelength Options (select one)

Wavelength	TX Power	RX Sensitivity	Option #	EAN
1270nm	-1dBm (typ.)	-20dBm (typ.)	OH-TR-4-1270-LC	4250479312708
1290nm			OH-TR-4-1290-LC	4250479312906
1310nm			OH-TR-4-1310-LC	4250479313101
1330nm			OH-TR-4-1330-LC	4250479313309
1350nm			OH-TR-4-1350-LC	4250479313507
1370nm			OH-TR-4-1370-LC	4250479313705
1390nm			OH-TR-4-1390-LC	4250479313903
1410nm			OH-TR-4-1410-LC	4250479314108
1430nm			OH-TR-4-1430-LC	4250479314306
1450nm			OH-TR-4-1450-LC	4250479314504
1470nm			OH-TR-4-1470-LC	4250479314702
1490nm			OH-TR-4-1490-LC	4250479314900
1510nm			OH-TR-4-1510-LC	4250479315105
1530nm			OH-TR-4-1530-LC	4250479315303
1550nm			OH-TR-4-1550-LC	4250479315501
1570nm			OH-TR-4-1570-LC	4250479315709
1590nm			OH-TR-4-1590-LC	4250479315907
1610nm			OH-TR-4-1610-LC	4250479316102

Power Adapter Options

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



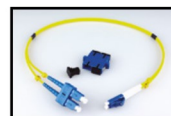
P-TAP 1000

Use with a standard battery P-TAP power source.



XLR 1000

Use with a standard 4 pin XLR camera battery power source.



Model# **LC/SC DUP**
LC/PC to SC/PC Adapter



Model# **LC/ST DUP**
LC/PC to ST/SC Adapter



Model# **LC/FC DUP**
LC/PC to FC/SC Adapter

Fiber Adapter Options

These adapter kits allow the use of ST, SC or FC fiber connections on the module.

