

Dual Channel 3G SDI to Fiber Transmitter (CWDM)

- Dual Channel
- Supports SDI video inputs up to 3G (1080p60)
- 3G Level A and Level B support (all formats)
- Auto relocking 270M, 1.5G, and 3G
- Error free optical transmission
- 18 Wavelength selections (ITU-T G.694.2)
- Up to 40km* (24.8 miles) @ 3Gbit/s
- Duplex LC/PC single mode optical connections
- Supports hot swapping and hot plugging



Installed, optional SFP shown is not included

The OTT 1842-1 is a compact CWDM dual channel SDI to fiber optic transmitter designed to combat the restrictions involved with the distribution of uncompressed broadcast quality video signals over long distances. 18 wavelengths are available.

When combined with the dual-channel fiber optic to SDI receiver module ORR 1802-2, and the OCM 1891/1892 CWDM multiplexers you have a very cost-effective CWDM fiber system for up to 18 signals in a single fiber link.

The OTT 1842-1 has two completely independent channels. Each will auto-detect and re-clock any 270Mbit/s, 1.5Gbit/s, and 3Gbit/s SDI source before optical transmission. 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.

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

Wavelengths	Power	Option #	EAN / UPC
1270nm, 1290nm	-4...+2dBm	OH-TT-4-1270-1290-LC	4250479327290
1310nm, 1330nm		OH-TT-4-1310-1330-LC	4250479331334
1350nm, 1370nm		OH-TT-4-1350-1370-LC	4250479335370
1390nm, 1410nm		OH-TT-4-1390-1410-LC	4250479339415
1430nm, 1450nm		OH-TT-4-1430-1450-LC	4250479343450
1470nm, 1490nm		OH-TT-4-1470-1490-LC	4250479347496
1510nm, 1530nm		OH-TT-4-1510-1530-LC	4250479351530
1550nm, 1570nm		OH-TT-4-1550-1570-LC	4250479355576
1590nm, 1610nm		OH-TT-4-1590-1610-LC	4250479359611

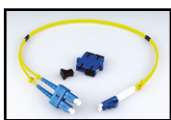
Technical Specifications

SDI Input	2 x SDI video on 75 Ohm BNC connector (two independent channels)		
	SMPTE 424M, SMPTE 292M, SMPTE 259M, DVB-ASI		
	Multi-standard operation from 270Mbit/s to 3Gbit/s		
	Multi-rate relocking: 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	3Gbit/s
	250m	140m	80m
	Belden 1694A cable		
Optical Output	2 x fiber optic outputs Simplex (singlemode) using LC/PC Connections		
	SMPTE 297M - 2006		
	Wavelength:	CWDM selection. See select SFP table	
	Optical power:	see selected SFP option	
	2x TX active LED on side of module		
	Max. distance*	max. 40km (24.8 miles) @ 3Gbit/s	
Power	+12V DC @ 1.9W nominal - (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 #	OTT 1842-1	EAN# 4250479318427	
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.

Fiber Adapter Options

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



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

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.

