

Dual Channel 12Gbit SDI to Fiber Transmitter (CWDM)

- Dual Channel
- Supports SDI video inputs up to 12Gbit/s (2160p60)
- 3Gbit Level A and Level B support (all formats)
- Auto reclocking 270Mbit / 1.5Gbit / 3Gbit / 12Gbit
- Error free optical transmission
- Up to 10km (6.2 miles) @ 12Gbit/s
- Duplex LC/PC single mode optical connections
- Supports hot swapping and hot plugging



Installed optional SFP shown is not included

The OTT 1442 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. Nine pairs of wavelength choices are provided.

When paired with a dual channel 12Gbit fiber optic to SDI receiver (e.g. yellobrik ORR 1402) you have a very cost-effective optical transmission / receiver system for two independent signals up to 12Gbit/s (4096x2160 @ 60Hz), while preserving full uncompressed quality.

The OTT 1442 has two completely independent channels and each will auto-detect and re-clock any 270Mbit / 1.5Gbit / 3Gbit and 12Gbit SDI source prior to optical transmission. The module is fully compatible with 3Gbit Level A and Level B formats.

Technical Specifications

Input	2 x SDI video on 75 Ohm BNC connector
	SMPTE 2082-1, SMPTE 2081-1, SMPTE 424M, SMPTE 292M, SMPTE 259M, DVB-ASI
	Multi-standard operation from 270Mbit/s to 12Gbit/s
	Multi-rate reclocking 270Mbit/s - 1.5Gbit/s - 3Gbit/s - 6Gbit/s - 12Gbit/s
	Electrical Return Loss: >15dB from 5MHz to 1.5GHz, >10dB from 1.5GHz to 3GHz
	Automatic cable EQ (Belden 1694A cable) 245m @ 1.5Gbit/s, 145m @ 3Gbit/s Automatic cable EQ (Belden 4794R cable) 85m @ 12Gbit/s, 6Gbit/s
Optical Outputs	2 x fiber optic outputs Simplex (single model) using LC/PC Connections
	SMPTE 297M - 2006
	Nine available groups of wavelengths(nm): (1270 + 1290), (1310+ 1330), (1350 + 1370), (1390+ 1410), (1430+ 1450), (1470+ 1490), (1510+ 1530), (1550+ 1570), (1590+ 1610)
	TX active LEDs on side of module
	Max. distance approx 10km (6.2 miles) @ 12Gbit/s (Singlemode)
Power	+12VDC @ 1.9W nominal without SFP +12VDC @ 2.6W nominal with SFP (supports 7 - 24VDC 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 - 40°C (41 - 104°F) 90% Humidity (non condensing)
Model #	OTT 1442 (EAN: 4250479327238)
Includes	Module, AC power supply

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.

Ordering Info:

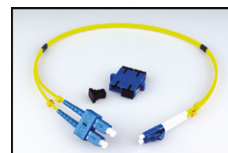
Note: The **OTT 1442** price **DOES NOT INCLUDE** the fiber transmitter SFP sub module. Please specify the required wavelength from the option list below.

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

Wavelengths	Power	Option #	EAN / UPC
1270nm, 1290nm	-2dBm...3dBm	OH-TT-12G-1270-1290-LC	4250479327337
1310nm, 1330nm	-2dBm...3dBm	OH-TT-12G-1310-1330-LC	4250479327344
1350nm, 1370nm	-2dBm...3dBm	OH-TT-12G-1350-1370-LC	4250479327351
1390nm, 1410nm	-2dBm...3dBm	OH-TT-12G-1390-1410-LC	4250479327368
1430nm, 1450nm	-2dBm...3dBm	OH-TT-12G-1430-1450-LC	4250479327375
1470nm, 1490nm	-2dBm...3dBm	OH-TT-12G-1470-1490-LC	4250479327382
1510nm, 1530nm	-2dBm...3dBm	OH-TT-12G-1510-1530-LC	4250479327399
1550nm, 1570nm	-2dBm...3dBm	OH-TT-12G-1550-1570-LC	4250479327405
1590nm, 1610nm	-2dBm...3dBm	OH-TT-12G-1590-1610-LC	4250479327412

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/SC Adapter

OTT1442-rev03 Specifications subject to change