

Dual Channel 3Gbit SDI to Fiber Transmitter (CWDM)

- Dual Channel
- Supports SDI video inputs up to 3Gbit/s (1080p60)
- 3Gbit Level A and Level B support (all formats)
- Auto reclocking 270Mbit / 1.5Gbit / 2.97Gbit
- 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

The OTT 1842 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 wavelength choices are provided.

When combined with the dual channel fiber optic to SDI receiver module ORR 1802, 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 has two completely independent channels and each will auto-detect and re-clock any 270Mbit / 1.48Gbit and 2.97Gbit SDI source prior to optical transmission. 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.



XLR 1000
Use with a standard 4 pin XLR camera battery power source.

Ordering Info:

Note. The **OTT 1842** price **DOES NOT INCLUDE** the dual fiber transmitter SFP sub module. Please specify the required wavelengths from the option list below when ordering.

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

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

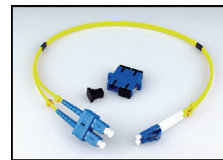


Technical Specifications

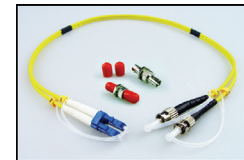
Input	2 x SDI video on 75 Ohm BNC connector SMPTE 424M, SMPTE 292M, SMPTE 259M, DVB-ASI Multi-standard operation from 270Mbit/s to 3Gbit/s Multirate reclocking 270Mbit/s - 1.48Gbit/s - 2.97Gbit/s Return Loss: > 15dB to 1.5GHz and > 10dB up to 3GHz Automatic cable EQ (Belden 1694A cable) 250m @ 270Mbit/s, 140m @ 1.5Gbit/s, 80m @ 3Gbit/s
Optical Outputs	2 x fiber optic outputs Simplex (single mode) using LC/PC Connections SMPTE 297M - 2006 18 Wavelength selections, in pairs - per ITU-T G.694.2 (see table) TX active LEDs on side of module Max. distance approx 40km (24.8 miles) @ 3Gbit/s (Singlemode)
Power	+12VDC @ 1.9W nominal without SFP +12VDC @ 2.6W 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 - 40°C (41 - 104°F) 90% Humidity (non condensing)
Model #	OTT 1842 - (EAN# 4250479318427)
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