

## 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 / 3Gbit
- 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 1842-1 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 wavelength choices are provided.

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

### Technical Specifications

<b>Input</b>	2 x SDI video on 75 Ohm BNC connector
	SMPT E 424M, SMPT E 292M, SMPT E 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: >15dB from 5MHz to 1.5GHz, >10dB from 1.5GHz to 3GHz
	Automatic cable EQ (Belden 1694A cable) 340m @ 270Mbit/s, 150m @ 1.5Gbit/s, 120m @ 3Gbit/s
<b>Optical Outputs</b>	2 x fiber optic outputs Simplex (single mode) using LC/PC Connections
	SMPT E 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)
<b>Power</b>	+12VDC @ 1.9W nominal without SFP +12VDC @ 2.6W nominal with SFP ( supports 7 - 16VDC input range )
<b>Physical</b>	Size: 140mm x 42mm x 22mm (5.51" x 1.65" x 0.86") including connectors Weight: 125g (4.4oz)
<b>Ambient</b>	5 - 40°C (41 - 104°F) 90% Humidity (non condensing)
<b>Model #</b>	OTT 1842-1 - ( EAN# 4250479318427 )
<b>Includes</b>	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:

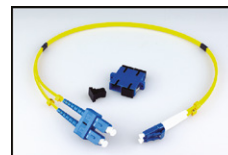
Note: The **OTT 1842-1** price **DOES NOT INCLUDE** the fiber transmitter SFP sub module. Please specify the required wavelength from the option list below.

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

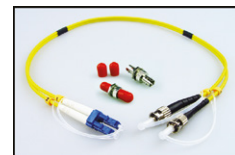
Wavelengths	Power	Option #
1270nm, 1290nm	-1dBm	<b>OH-TT-4-1270-1290-LC</b>
1310nm, 1330nm	-1dBm	<b>OH-TT-4-1310-1330-LC</b>
1350nm, 1370nm	-1dBm	<b>OH-TT-4-1350-1370-LC</b>
1390nm, 1410nm	-1dBm	<b>OH-TT-4-1390-1410-LC</b>
1430nm, 1450nm	-1dBm	<b>OH-TT-4-1430-1450-LC</b>
1470nm, 1490nm	-1dBm	<b>OH-TT-4-1470-1490-LC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

### 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

OTT1842-1-rev10 Specifications subject to change