

Dual Channel 3Gbit SDI to Fiber Transmitter (CWDM)

- Supports SDI video inputs up to 3Gbit/s (1080p60)
- Dual Channel
- Error free optical transmission
- 18 Wavelength selections (ITU-T G.694.2)
- Up to 40km (24.8 miles) @ 3Gbit/s
- Duplex LC 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.

Each channel is fully independent and will auto-detect any connected video signal from 270Mbit/s to 3Gbit/s according to SMPTE 424M, SMPTE 292M and SMPTE 259M standards, as well as DVB-ASI.

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. One **MUST** be specified. For example the order needs to separately specify the module **OTT 1842** and an optional dual fiber Transmitter SFP e.g. **OH-TT-4-1550-1570** (for 1550nm and 1570nm)

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 Connector 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 40km (24.8 miles) @ 3Gbit/s (Singlemode) |
| Power | +12VDC power supply (included) (supports external power input from 9 - 14 VDC) Power LED on side of module |
| Size | 105mm x 40mm x 22mm (4.13" x 1.57" x 0.86") |
| Model # | OTT 1842 |
| Includes | Module, 12V DC power supply and wall mounting brackets (fiber optic cable not included) |

Fiber Optic Connection

LC to LC Duplex (Singlemode) up to 40km (24.8 miles)
(not included)



Specifications subject to change