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 relocking 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

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

### Optical Outputs
- 2 x fiber optic outputs
- Simplex single mode 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

### Physical
- Size: 140mm x 42mm x 22mm (5.51” x 1.65” x 0.86”)
- Weight: 125g (4.4oz)
- Ambient: 5 - 40ºC (41 - 104ºF), 90% Humidity (non condensing)

### Model #
- OTT 1442 (EAN: 4250479327238)

### Includes
- Module, AC power supply

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

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**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/SC Adapter

**Model# LC/ST DUP**
LC/PC to ST/SC Adapter

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*Rev 2.0 Specifications subject to change*