

## Dual Channel 12Gbit SDI to Fiber Transmitter

- Dual channel
- Supports 12G, 6G, 3G, and 1.5G SDI video inputs
- 3Gbit Level A and Level B support (all formats)
- Auto reclocking 1.5Gbit / 3Gbit / 6Gbit / 12Gbit
- Error free optical transmission
- Up to 10km (6.2 miles) @ 12Gbit/s (singlemode)
- Duplex LC/PC singlemode optical connection
- Supports hot swapping and hot plugging



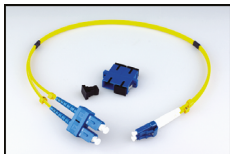
The OTT 1412 is a compact dual channel SDI to fiber optic transmitter designed to combat the restrictions involved with the distribution of uncompressed broadcast quality video signals over long distances.

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

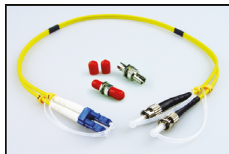
The OTT 1412 has two completely independent channels and each will auto-detect and re-clock any 1.5Gbit, 3Gbit, 6Gbit or 12Gbit SDI source prior to optical transmission. The module is fully compatible with 3Gbit Level A and Level B formats.

### 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

### 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.

### Technical Specifications

|                        |  |
|------------------------|--|
| <b>Input</b>           | 2 x SDI video on 75 Ohm BNC connector (two independent channels)<br>SMPT E 2082-1, SMPT E 2081-1, SMPT E 424M, SMPT E 292M<br>Multi-standard operation from 1.5Gbit/s to 12Gbit/s<br>Multirate reclocking: 1.5Gbit - 3Gbit - 6Gbit - 12Gbit<br>Electrical Return Loss: >15dB from 5MHz to 1.5GHz, >10dB from 1.5GHz to 3GHz<br>Automatic cable EQ<br>245m @ 1.5Gbit/s, 145m @ 3Gbit/s (Belden 1694A cable)<br>85m @ 12Gbit/s, 6Gbit/s (Belden 4794R cable) |
| <b>Optical Outputs</b> | 2 x fiber optic outputs (one for each channel)<br>Duplex (single model) using LC/PC Connections<br>SMPT E 297M - 2006<br>Wavelength 1310nm (each channel)<br>Optical power -5.5dBm...0.5dBm (each channel)<br>TX active LEDs on side of module<br>Max. distance approx. 10km (6.2 miles) @ 12Gbit/s (Singlemode)   |
| <b>Power</b>           | +12VDC @ 2.5W nominal - ( supports 7 - 24VDC input range )   |
| <b>Physical</b>        | Size: 140mm x 42mm x 22mm (5.51" x 1.65" x 0.86") including connectors<br>Weight: 125g (4.4oz)   |
| <b>Ambient</b>         | 5 - 40°C (41 - 104°F) 90% Humidity (non condensing)  |
| <b>Model #</b>         | OTT 1412 - ( EAN# 4250479326491)   |
| <b>Includes</b>        | Module, AC power supply  |

Specifications subject to change