



Dual Channel 12G SDI to Fiber Transmitter

- Dual channel
- Supports 12G, 6G, 3G, 1.5G, and 270M SDI video inputs
- 3G Level A and Level B support (all formats)
- Auto reclocking 270M, 1.5G, 3G, 6G, and 12G
- 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 transmitter/receiver system for signals up to 12G (4096x2160 @ 60Hz) while preserving full uncompressed quality.

The OTT 1412 has two completely independent channels and each will auto-detect and re-clock any 270Mbit/s, 1.5Gbit/s, 3Gbit/s, 6Gbit/s, or 12Gbit/s SDI source before optical transmission. The module is fully compatible with 3G Level A and Level B formats.



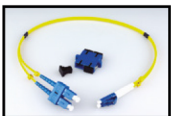
Technical Specifications

| | | | | |
|-------------------------|--|---|--------------------|---------------|
| SDI Input | 2 x SDI video on 75 Ohm BNC connector (two independent channels) | | | |
| | SMPTE 2082-1, SMPTE 2081-1, SMPTE 424M, SMPTE 292M, SMPTE 259M | | | |
| | Multi-standard operation from 270Mbit/s to 12Gbit/s | | | |
| | Multi-rate reclocking: 270Mbit/s to 12Gbit/s | | | |
| Electrical Return Loss: | to 1.5GHz >15dB | to 3GHz >10dB | to 6GHz >7dB | to 12GHz >4dB |
| Automatic cable EQ: | 1.5Gbit/s | 3Gbit/s | 6Gbit/s | 12Gbit/s |
| | 190m | 140m | 90m | 80m |
| | Belden 1694A cable | | Belden 4794R cable | |
| Optical Output | 2 x fiber optic outputs Duplex (singlemode) using LC/PC Connections | | | |
| | SMPTE 297M - 2006 | | | |
| Wavelength: | 1310nm (each channel) | | | |
| Optical power: | -5.5dBm...0.5dBm (each channel) | | | |
| | 2x TX active LED on side of module | | | |
| Max. distance* | max. 10km (6.2 miles) @ 12Gbit/s | | | |
| Power | +12V DC @ 2.5W nominal - (supports 7 - 24V DC input range) | | | |
| | Power LED on side of module | | | |
| Physical | Size (incl. connectors) | 140mm x 42mm x 22mm (5.51" x 1.65" x 0.86") | | |
| | Weight | 125g (4.4oz) | | |
| Ambient | 5 - 40°C (41 - 104°F) 90% Humidity (non condensing) | | | |
| Model # | OTT 1412 | EAN# 4250479326491 | | |
| Includes | Module, SFP Module, AC power supply | | | |

*Distance is an approximation. Actual distances achieved can be longer or shorter depending on the type of cable. Determine link losses and perform optical budget calculations to ensure correct operation.

Fiber Adapter Options

These adapter kits allow the use of ST, SC or FC fiber connections on the module.



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



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



Model# **LC/FC DUP**
LC/PC to FC/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.