12G, 6G, 3G, 1.5G SDI to Fiber Optic Transmitter

- Supports 12G, 6G, 3G and 1.5G SDI video inputs
- 3Gbit Level A and Level B (support for all formats)
- Auto reclocking 1.5Gbit / 3Gbit / 6Gbit / 12Gbit
- Error free optical transmission
- Reclocked SDI loop out connection
- LC/PC connection
- Singlemode fiber connection
- Up to 10km (6.2 miles) @ 12Gbit/s (singlemode)
- Hot swappable and hot pluggable

The OTX 1410 is a compact SDI to fiber optic transmitter designed to combat the restrictions involved with the distribution of uncompressed, high bandwidth, broadcast quality video signals over long distances.

When paired with the fiber optic to SDI receiver (e.g. yellobrik ORX 1400) you have a very cost-effective optical transmission / receiver system for signals up to 12Gbit/s (4096×2160 @ 60Hz), while preserving full uncompressed quality.

Operation of the OTX 1410 is fully automatic. The SDI video format is automatically detected, reclocked and then transmitted over the fiber optic connection. A reclocked electrical SDI output is also provided.

The OTX 1410 supports 12G, 6G, 3G and 1.5G SDI video standards.

Technical Specifications

SDI Input
- 1 x SDI video input and 1 x SDI reclocked loop output
- 75 Ohm BNC connectors
- SMPTE 2082-1, SMPTE 2081-1, SMPTE 424M, SMPTE 292M
- Multi-standard operation from 1.5Gbit/s to 12Gbit/s
- Multirate reclocking: 1.5Gbit - 3Gbit - 6Gbit - 12Gbit
- Automatic cable EQ
- 260m @ 1.5Gbit/s, 150m @ 3Gbit/s (Belden 1694A cable)
- 90m @ 6Gbit/s, 80m @ 12Gbit/s (Belden 4794R cable)

Optical Output
- 1 x fiber optic output
- SMF (singlemode) using LC/PC connection
- SMPTE 297M - 2006
- Wavelength 1310nm, typical Optical power -3dBm
- TX active LED on side of module
- Max. distance approx. 10km (6.2 miles) @ 12Gbit/s (SMF) - depending on system

Power
- +12VDC @ 2.2W nominal - supports 7 - 24VDC input range
- Power Adapter Options
  - 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.

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 SIM
LC/PC to SC/PC Adapter

Model# LC/ST SIM
LC/PC to ST/SC Adapter

Specifications subject to change.