Dual Channel 3Gbit Fiber to SDI Receiver

- Dual channel
- Supports SDI video inputs up to 3Gbit/s (1080p60)
- 3Gbit Level A and Level B support (all formats)
- Auto re-clocking 270Mbit / 1.5Gbit / 3Gbit
- Error free optical reception
- 1260nm to 1620nm wavelength input range
- Duplex LC/PC singlemode optical connection
- Supports hot swapping and hot plugging

The ORR 1802 is a compact dual channel fiber optical to SDI receiver designed to combat the restrictions involved with the distribution of uncompressed broadcast quality video signals over long distances.

When paired with a SDI optical transmitter (e.g. yellobrik OTT 1812, OTX 1812, OTX 1842 etc) you have a very cost-effective optical transmission / receiver system for signals up to 1080p60 (3Gbit/s), while preserving full uncompressed quality.

The ORR1802 has two completely independent channels and each will auto-detect and re-clock any 270Mbit / 1.5Gbit and 3Gbit SDI fiber source prior to electrical conversion. The module is fully compatible with 3Gbit Level A and Level B formats.

Technical Specifications

**Fiber Inputs**
- 2 x fiber optic inputs (one for each channel)
- Duplex (single mode) using LC/PC Connections
- SMPTE 297M - 2006
- Hot pluggable
- Input range (wavelength) 1260nm to 1620nm
- RX sensitivity -3dBm to -16dBm
- RX active LED on side of module
- (SMF) Singlemode fiber

**SDI Outputs**
- 2 x SDI video on 75 Ohm BNC connector (two independent channels)
- SMPTE 424M, SMPTE 292M, SMPTE 259M, DVB-ASI
- Multi-standard operation from 270Mbit/s to 3Gbit/s
- Electrical Return Loss: >15dB from 5MHz to 1.5GHz, >10dB from 1.5GHz to 3GHz

**Power**
- +12VDC @ 2.2W nominal (supports 9 - 14VDC input range)

**Physical**
- Size: 140mm x 42mm x 22mm (5.51” x 1.65” x 0.86”) including connectors
- Weight: 125g (4.4oz)

**Ambient**
- 5 - 40ºC (41 - 104ºF) 90% Humidity (non condensing)

**Model #**
- ORR 1802 - (EAN# 4250479318021)

**Includes**
- Module, AC power supply

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.

Specifications subject to change.