

## Dual Channel 12Gbit Fiber to SDI Receiver

- Dual channel
- Supports 12G, 6G, 3G, and 1.5G SDI video standards
- Supports SDI video inputs up to 12Gbit/s (4096x2160 @ 60Hz)
- Auto reclocking 1.5Gbit / 3Gbit / 6Gbit / 12Gbit
- 3Gbit Level A and Level B (support for all formats)
- Error free optical reception
- 1260nm to 1620nm wavelength input range
- Up to 10km (6.2 miles) @ 12Gbit/s (singlemode)
- 2x fiber optic inputs (LC Connector - singlemode)
- Supports hot swapping and hot plugging



### Technical Specifications

#### Fiber Inputs

2 x fiber optic Inputs (one for each channel)  
Duplex (single model) using LC/PC Connections

SMPTE 297M - 2006

Hot pluggable

Input range (wavelength) 1260nm to 1620nm

RX sensitivity -10dBm / -9dBm @ 12Gbit/s

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 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

Electrical Return Loss: >15dB from 5MHz to 1.5GHz, >10dB from 1.5GHz to 3GHz

#### Power

+12VDC @ 2.2W nominal - (supports 7 - 24VDC 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 - 40°C (41 - 104°F) 90% Humidity (non condensing)

#### Model #

ORR 1402 - (EAN# 4250479326484)

#### Includes

Module, AC power supply

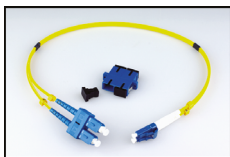
The ORR 1402 is a compact dual channel fiber optical to SDI receiver designed to combat the restrictions involved with the distribution of uncompressed broadcast quality video signals over long distances.

When paired with a SDI optical transmitter (e.g. yellobrik OTT 1412, OTX1410, OTX1440 etc), the user will have a very cost-effective optical transmission/receiver system for signals up to 12Gbit/s (4096x2160 @ 60Hz), while preserving full uncompressed quality.

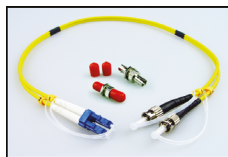
The ORR1402 has two completely independent channels and each will auto-detect and re-clock any 1.5Gbit, 3Gbit, 6Gbit, or 12Gbit SDI fiber source prior to electrical conversion. The module is fully compatible with 3Gbit Level A and Level B formats.

### 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.

Specifications subject to change