

3G SDI to Fiber Optic Receiver

- Supports SDI video inputs up to 3Gbit/s (1080p60)
- 3Gbit Level A and Level B support (all formats)
- Auto reclocking 270Mbit/s, 1.5Gbit/s, and 3Gbit/s
- 2 x SDI outputs
- Versions for LC, ST or SC fiber connections
- Multimode version available
- Input range 1260nm to 1620nm (singlemode)
- Input range 780nm to 880nm (multimode)
- Supports hot swapping and hot plugging

The ORX 1802-2 is a compact fiber to SDI receiver designed to combat the restrictions involved with the distribution of uncompressed broadcast quality video signals over long distances.

When paired with the fiber optic to SDI transmitters (e.g. yellobrik OTX 1812 or OTX 1842) you have a very cost-effective optical transmission / receiver system for signals up to 3G (1080p60) while preserving full uncompressed quality.

The ORX 1802-2 provides 2 SDI outputs and support for LC, ST or SC singlemode fiber connections as well as an LC version suitable for multimode fiber. It will also auto-detect and re-clock any 270Mbit/s, 1.5Gbit/s and 3Gbit/s SDI fiber source and convert to an electrical signal. The module is fully compatible with 3G Level A and Level B formats.

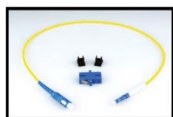


LC singlemode **ST** singlemode **SC** singlemode **LC** multimode

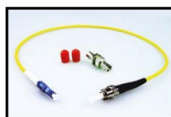
Using the same basic module we provide four versions suitable for LC, ST or SC singlemode fiber connections, as well as a version for multimode fiber. Each version has a different SFP installed.

Fiber Adapter Options

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



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



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



Model# **LC/FC SIM**
LC/PC to FC/SC Adapter



ORX 1802-2 LC Version Shown

Technical Specifications

| | | | |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-----------|
| Fiber Input | 1 x fiber optic input Simplex (singlemode) LC/PC, ST/PC, or SC/PC connection or Simplex (multimode) LC/PC connection | | |
| | SMPTE 297M - 2006 | | |
| Wavelength: | ORX 1802-2 LC / ST / SC | 1260nm to 1620nm | |
| | ORX 1802-2 MM | 780nm to 880nm | |
| RX Sensitivity | ORX 1802-2 LC / ST / SC | -18dBm | |
| | ORX 1802-2 MM | 0dBm to -15dBm | |
| RX active LED on side of module | | | |
| Max. distance* | ORX 1802-2 LC / ST/ SC | max. 10km (6.2 miles) | @ 3Gbit/s |
| | ORX 1802-2 MM | max. 300m (984feet) | @ 3Gbit/s |
| SDI Output | 2 x SDI video on 75 Ohm BNC connectors | | |
| | SMPTE 424M, SMPTE 292M, SMPTE 259M, DVB-ASI | | |
| | Multi-standard operation from 270Mbit/s to 3Gbit/s | | |
| | Multirate reclocking: 270Mbit/s - 1.5Gbit/s - 3Gbit/s | | |
| Electrical Return Loss: | to 1.5GHz: | to 3GHz: | |
| | >15dB | >10dB | |
| Power | +12V DC @ 1.9W 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 # | ORX 1802-2 LC | EAN# 4250479359697 | |
| | ORX 1802-2 ST | EAN# 4250479359710 | |
| | ORX 1802-2 SC | EAN# 4250479359703 | |
| | ORX 1802-2 MM | EAN# 4250479359727 | |
| 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.

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.

