yellobrik® OTR 1410

12G, 6G, 3G, 1.5G, 270M SDI/Fiber Optic Transceiver

- SDI fiber receiver and transmitter in single package
- Supports 12G, 6G, 3G, 1.5G and 270M SDI video standards
- 3Gbit Level A and Level B (support for all formats)
- Auto reclocking 270Mbit/s, 1.5Gbit/s, 3Gbit/s, 6Gbit/s, and 12Gbit/s
- Error free optical transmission
- LC/PC duplex connection
- Singlemode fiber connection
- Distance up to 10km* (6.2 miles) @ 12Gbit/s (singlemode)
- Hot swappable and hot pluggable

The OTR 1410 is a Fiber / SDI transmitter and receiver combined in a single self contained package. It is a convenient and cost-effective solution to combat the restrictions involved with the distribution of uncompressed, high bandwidth, broadcast quality video signals over long distances.

Each OTR 1410 transceiver has an independent transmitter and receiver channel, which provides an effective solution for any SDI signal up to 12G (4096×2160 @ 60Hz), while preserving full uncompressed quality.

Operation of the receiver and transmitter is automatic. For transmission, the SDI video format is automatically detected, reclocked and then transmitted over the fiber optic TX connection. For reception, the optical SDI video input signal on the RX connection is automatically detected, reclocked and provided on the SDI output connection.

The OTX 1410 supports 12G, 6G, 3G, 1.5G, 270M SDI video standards.

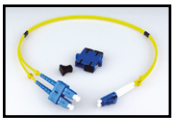
Technical Specifications

SDI Video	1 x SDI input on 75 Ohm BNC connectors 1 x SDI output on 75 Ohm BNC connectors					
	SMPTE 2082-1, SMPTE 2081-1, SMPTE 424M, SMPTE 292M, SMPTE 259M					
	Multi-standard operation from 270Mbit/s to 12Gbit/s					
	Multirate reclocking: 270Mbit/s - 1.5Gbit/s - 3Gbit/s - 6Gbit/s - 12Gbit/s					
	Automatic cable EQ	270Mbit/s	1.5Gbit/s	3Gbit/s	6Gbit/s	12Gbit/s
		250m	220m	150m	80m	80m
		Belden 1694A			Belden 4794R	
Fiber Optic	1 x fiber optic input, 1 x fiber optic output Duplex (singlemode) using LC/PC connection					
	SMPTE 297M - 2006					
	Transmitter	Wavelength	1310nm			
		Optical power	-3dBm (typ)			
	Receiver	Wavelength	1260nm - 1620nm			
		Sensitivity	-2dBm to -10dBm			
	Max. distance*	10km (6.2 miles)	@ 12Gbit/s			
	TX & RX active LEDs on side of module					
Power	+12V DC @ 2W nominal - (supports 7 - 24V DC input range)					
	Power LED on side of module					
Physical	Size (incl. connectors)	140m 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 #	OTR 1410	4250479324749				
Includes	Module, SFP Module, AC power supply					

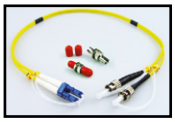
*Distance is an approximation. Actual distances achieved can be longer or shorter depending on the type of cable. Determine link losses and perform optical budget calculations to ensure correct operation.

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.