

TR1 Dual SDI to Fibre Singlemode Tx/Rx

The TR1 is designed to offer a wide range of options, allowing for dual channel transmitter, dual channel receiver or single channel transceiver versions. The TR1 will pass SDI (270 Mbps) signals in standard openGear rack frames and can be mixed freely with analogue or digital video or audio modules. This feature provides fully integrated solutions for the transmission of video and audio signals over distances that cannot be accomplished using conventional copper co-axial cable.

A distance of 100km is possible with SDI signals when using 1550nm lasers (see distance table below). The module can be supplied in either 1310nm or 1550nm versions. Other frequencies between 1470nm and 1610nm can be supplied for CWDM applications.

Features

- SDI (270Mbps)
- Dual channel transmitter version (/TT option)
- Dual channel receiver version (/RR option)
- Single channel transceiver version (/TR option)
- 1310 or 1550nm versions (other wave lengths to order)
- Different wavelengths can be mixed on one module
- Can be mixed in the same frame with other openGear series modules

Specifications

TR1 SERIAL INPUTS (up to 2)

Format Compatible with SMPTE 259M

Reclocking on inputs

Connector BNC

Impedance 75ohms

Data Rates 143Mbps, 177Mbps, 270Mbps

Also accepts AES/EBU digital audio streams

TR1 SERIAL OUTPUTS (up to 2)

Connector BNC

Reclocking on all outputs.

Impedance 75 ohms

Amplitude 800mV p-p (terminated)

D.C. Offset 0V +/-0.5V

Controls

Status monitoring only

TR1 OPTICAL INPUTS (up to 2)

Connector LC with shutter

Optical Wavelength range 1270nm to 1610nm

Optical Power input range -23dBm to -1dBm (Typical)

Recommended Cable Single-Mode

TR1 OPTICAL OUTPUTS (up to 2)

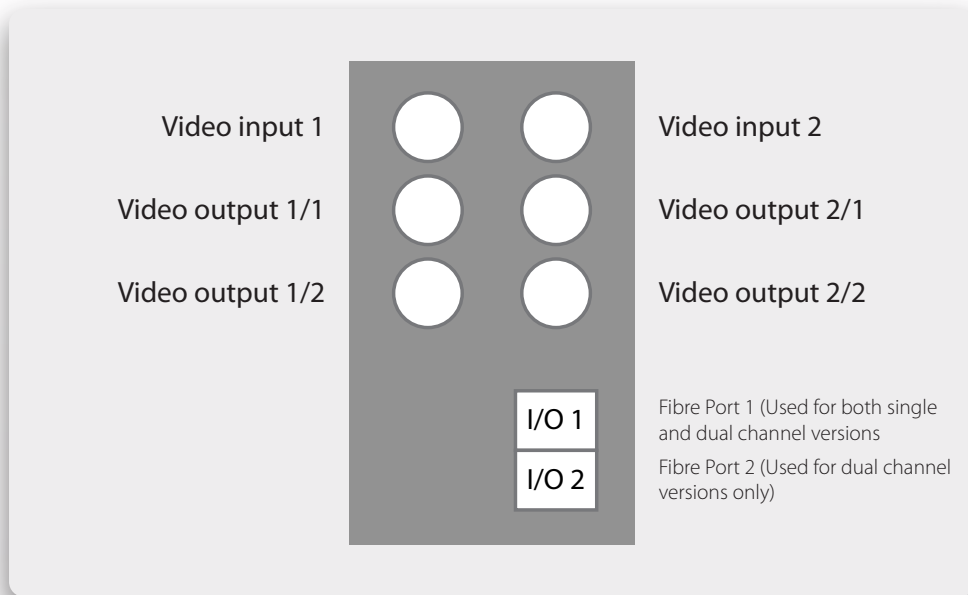
Connector LC with shutter

Laser FP or DFB

Optical Wavelength 1310nm or 1550nm

Optical Power Output 2 user selectable options:
@ 1310nm -5/-2/+1dBm (Typical)
@ 1610nm +1dBm (Typical)

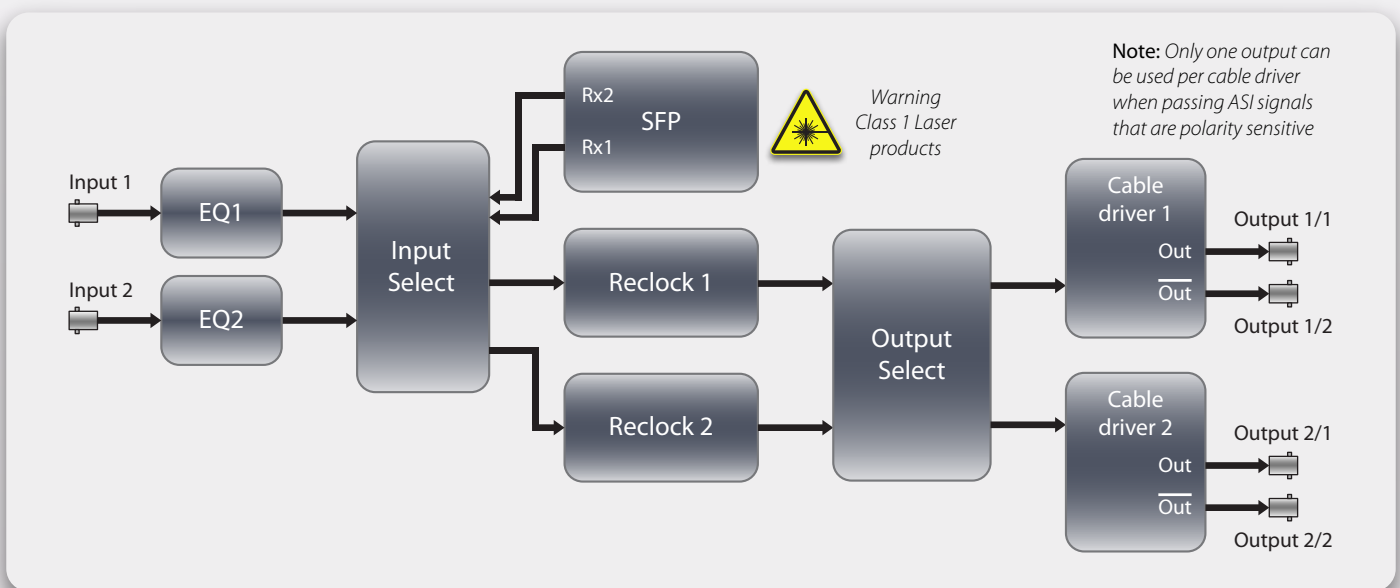
Transmitter	Receiver	Data Rate	Link Distance (Min)
1310nm	PIN	270Mbps	15km
1550nm	PIN	270Mbps	65km
	APD	270Mbps	100km



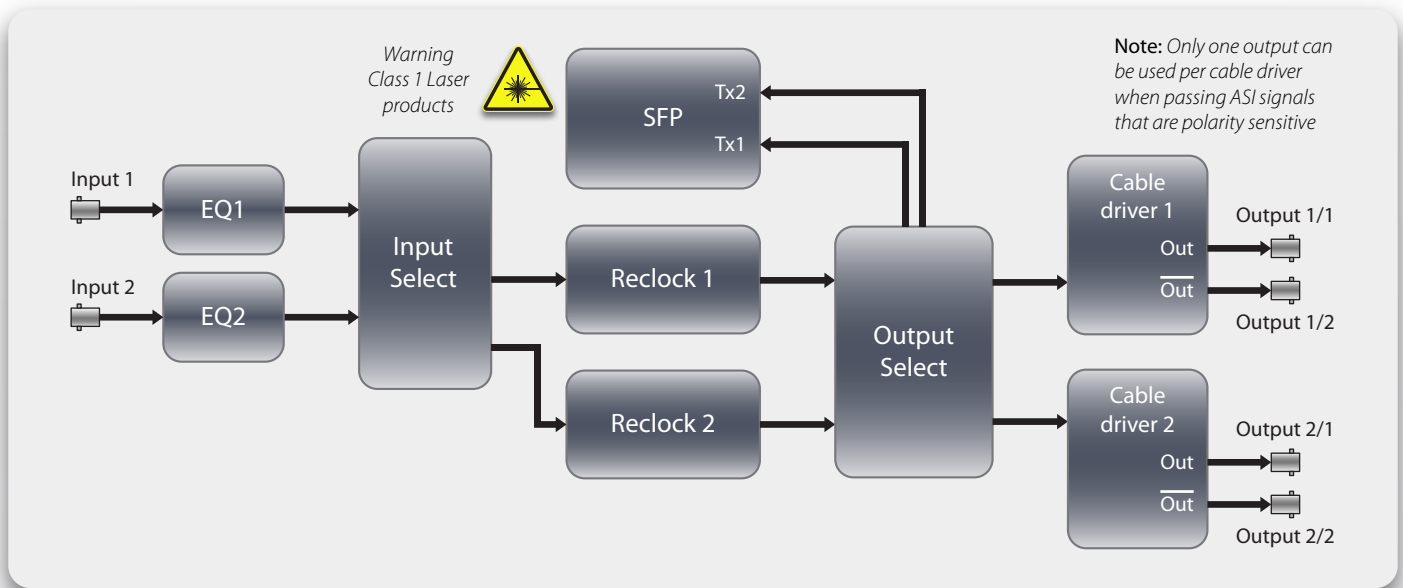
Ordering Information

- TR1/RR Two Channel Receiver
- TR1/R Single Channel Receiver
- TR1/TR/13 Single Channel Receiver/Transmitter @ 1310nm
- TR1/TR/15 Single Channel Receiver/Transmitter @ 1550nm
- TR1/TT/13/13 Two Channel Transmitter, Both Channels @ 1310nm
- TR1/TT/13/15 Two Channel Transmitter, One Channel @ 1310nm, Other Channel @ 1550nm
- TR1/TT/15/15 Two Channel Transmitter, Both Channels @ 1550nm
- TR1/T/13 Single Channel Transmitter, @ 1310nm
- TR1/T/15 Single Channel Transmitter, @ 1550nm
- RM-Fibre-A Rear

Receiver Mode



Transmit Mode



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