

OTRX-20xx

Dual HD/SD Optical Receiver

Features

- High performance & low cost
- Supports HD/SDI & ASI signals
- Single Optical Output & Single Optical Input
- Non-inverting & Inverting outputs
- Optical Transmitter - 1310nm standard other λ upon request
- Optical Receiver - PIN or APD versions available
- Reclocking (270,1438,1485 Mbps)
- LED indicators
- Contact closure alarm
- Compact & rugged design 142mm(L) x 82mm(W) x 47mm(H)

Description

The OTRX-20xx is a high performance optical transmitter & receiver capable of supporting HD,SD and ASI. Each channel is independent of rate and data format. Optical links are capable of long distance error free transmission and excellent isolation. External passive optical multiplexers can also be used increase the channel capacity of optical links whilst simultaneously avoiding the problems and limitations associated with TDM multiplexing. Up to 30KM path length are possible. The Optical SFP includes options that can be changed to suit performance and wavelength applications.

Specifications

Electrical Inputs

Number of Inputs	1
Data Rate	270 1483 & 1485 Mbps
Return Loss	>15dB (5MHz – 1.5GHz)
Cable Eq. \square	0 to 100m Belden 1694A (HD) 0 to 250m Belden 8281A (SD)
Impedance	75 ohm
Connectors	75 ohm BNC female

Electrical Outputs

Number of Outputs	3 (one monitor of electrical input)
Polarity	Non-inverting and inverting output
Signal Level	800mV p-p +/- 100mV
Return Loss	>15dB (5MHz – 1.5GHz)
Impedance	75 ohm
Connectors	75 ohm BNC female

Optical Outputs

Number of Inputs	1
Data Rate	270, 1483 & 1485 Mbps
Wavelength	1310nm operation (other λ upon request)
Optical Power	-2dBm (typical)
Connectors	LC

Optical Inputs

Number of Inputs	1
Data Rate	270, 1483 & 1485 Mbps
Sensitivity	PIN \square -20dBm (typical with pathological) APD \square -30dBm (typical with pathological)
Connectors	LC on SFP module

Alarm & Control Interface – for each channel

- Loss & Presence LED indicator
- SD/ASI LED indicator
- HD LED indicator
- Auto HD/SD/ASI, HD Only or SD Only selection
- Solid state alarm relay contacts

Supported Standards

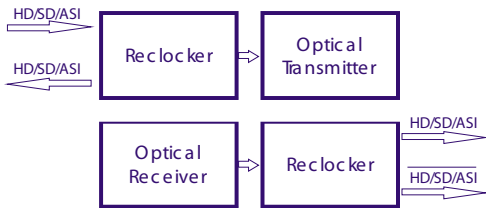
- SMPTE - 259M (270Mbit/s), 292M (1483, 1485Mbit/s)
- DVB-ASI - EN50083-9 (270Mbit/s)

Accessories (extra)

- High performance, 110-240V universal input, 12V @1.5A output
- Power lead, SAA approved, 2M, IEC320-C14 connector

Compatibility

Compatible with all SBC products supporting digital video interfaces



Ordering Information

OTRX-2000	1300nm Optical TX & PIN Optical RX
OTRX-2010	1300nm Optical TX & APD Optical RX
OTRX-2100	1550nm Optical TX & PIN Optical RX
OTRX-2110	1550nm Optical TX & APD Optical RX