

10G OEO Convertor

**MAKE YOUR
OPTICAL NETWORKS
MORE RELIABLE**



10Gb/s optical wavelength convertor is used for converting light wavelength into other wavelength with different parameters based on optical-electric-optical conversion. It can support various of systems such as 10Gb/s SDH/SONET, 10Gb/s Ethernet, and can be used to extent transmission distance.

Features

- Data transfer rate: 9.9532Gbit/s, 10.3125Gb/s
- DWDM output wavelengths available

Applications

- SDH/SONET STM-64/OC-192
- 10G Ethernet System

Specifications

Optical interface characteristics (T=25°C, PRBS 2³¹-1, BER=10⁻¹²)

Parameter	Unit	Value		Test condition
Transmission Distance	Km	15	40/80	ITU-TG.691
Optical Path Penalty	dB	≤ 1	≤ 2	G.652 SMF
Center Wavelength	nm	1270 ~ 1355	1530 ~ 1565	ITU-T G.691
			DWDM	ITU-T G.694.1
Output Optical Power Level	dBm	-6 ~ -1	-3 ~ +2	
Spectral Width(-20dB)	nm	≤ 1	≤ 0.4	NRZ@10Gb/s
SMSR	dB	≥ 30		
Extinction Ratio	dB	≥ 6	≥ 8.2	
Receiver Wavelength	nm	1100~1650		
Receiver Sensitivity	dBm	≤ -14(PIN); ≤ -22(APD)		
Receiver Overload Power	dBm	≥ -1(PIN); ≥ -8(APD)		
Reflection	dB	≤ -27		
Operation Temperature	°C	0 ~ +50		
Storage Temperature	°C	-40 ~ +85		
Relative Humidity		≤ 90%		
AC Power Supply	V	220 AC		
DC Power Supply	V	-48 DC		
Power Consumption	W/ch	≤ 15		

Note: Insertion loss doesn't include connector loss.

Ordering information

OEO - 10G - - - - - - - -							
Bit Rate	Conversion Mode	Dispersion Limited Distance	Receiver Type	Output Wavelength	Connector	Power	Package
1: 9.95Gb/s 2: 10.3Gb/s 3: 10.6Gb/s 4: 10.7Gb/s	MS SS	15: 15Km 40: 40Km 80: 80Km	P: PIN A: APD	0: C-band wavelength (1530~1565nm) 1: ITU-T G.694.1 defined 131: 1310nm	FC, SC/UPC	A: -48V DC B: 220V AC	11: 483×285×44mm

Note: MS(multi-mode fiber to single-mode fiber) SS(single-mode fiber to single-mode fiber)