

10G Multi-channel OEO Convertor

ACCELINK TECHNOLOGIES CO.,LTD.



The 10G Multi-channel fiber optics converter can multiplex many different wavelengths (100GHz or 200GHz spacing) to be combined in one fiber and demultiplex at the other end of the fiber, what's more, it supports various of systems such as 10G bits/s SDH/SONET, 10 Gigabit Ethernet. So, the converter provides a powerful and cost-effective solution for cable-shortage areas. It's usually used with a DMUX.

Features

- DWDM output wavelengths available
- 4U package

Applicatoins

- 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
Parameter			
Target distance	km	40/80	ITU-T G.691
Link budget	dB	≤11	40km G.652
Chromatic dispersion	ps/nm	800/1600	ITU-T G.691、40km
Optical path penalty	dB	≤2	G.652 SMF
Transfer Part			
Center wavelength	nm	ITU-T grid	ITU-T G.694.1
Output optical power level	dBm	0±1	40km
Spectral width (-20dB)	nm	≤0.4	NRZ@10Gb/s
SMSR	dB	≥30	
Extinction ratio	dB	≥8.2	
Receiver Part			
Receiver wavelength	nm	1100~1650	
Receiver sensitivity ¹	dBm	≤-14(PIN); ≤-22(APD)	
Receiver overload power	dBm	≥-1(PIN); ≥-8(APD)	
reflection	dB	≤-27	
Power consumption	W	≤10/ch	

Note: 1, test condition :backto back

MUX/DMUX (DWDM)

Parameter	Unit	Value	Test condition
Insertion loss	2ch.	dB	<1.8
	4ch.	dB	<2.0
	8ch.	dB	<3.2
Channel uniformity	dB	1.0	
Adjacent channel isolation	dB	≥25	
Wavelength thermal stability	nm/°C	≤0.001	0~60°C

Operating condrtion

Parameter	Unit	Value
Operating temp.	°C	0~50
Storage temp.	°C	-40~+85
Relative humidity		≤90%
AC Power supply	V	220 AC
DC Power supply	V	-48 DC

Ordering information

