

OC-2T-10G

10Gbit/s Ethernet Optical CWDM Transponder

Data Sheet



Description

The OC-2T-10G module is an optical 10Gbit/s Ethernet CWDM transponder. This module is typically connected to a 10Gig Ethernet switch with 1310nm interface. It enables the miniHUB system to transport 10Gig Ethernet over its CWDM architecture.

It can also be used for refreshing long distance 10Gig Ethernet signals with reclocking and possible wavelength swapping.

The module can be controlled from the miniHUB WEB control interface (RCONmini).

Features

- Available with 18 CWDM wavelegths
- LEDs show input signal presence
- RCONmini WEB & SNMP control interface
- Optical Power Monitoring
- 10Gbps Reclocking
- Backplane compatible to OC-4B-SDI
- 80km optical SFP's and DWDM available on request

Part Number Options

Part Number	Temperature *)
OC-2T-10G / 1270nm	0°C to +45°C
OC-2T-10G / 1290nm	0°C to +45°C
OC-2T-10G / 1310nm	0°C to +45°C
OC-2T-10G / 1330nm	0°C to +45°C
OC-2T-10G / 1350nm	0°C to +45°C
OC-2T-10G / 1370nm	0°C to +45°C
OC-2T-10G / 1390nm	0°C to +45°C
OC-2T-10G / 1410nm	0°C to +45°C
OC-2T-10G / 1430nm	0°C to +45°C
OC-2T-10G / 1450nm	0°C to +45°C
OC-2T-10G / 1470nm	0°C to +45°C
OC-2T-10G / 1490nm	0°C to +45°C
OC-2T-10G / 1510nm	0°C to +45°C
OC-2T-10G / 1530nm	0°C to +45°C
OC-2T-10G / 1550nm	0°C to +45°C
OC-2T-10G / 1570nm	0°C to +45°C
OC-2T-10G / 1590nm	0°C to +45°C
OC-2T-10G / 1610nm	0°C to +45°C

*) Rated temperature for the complete miniHUB.

Absolute Maximum Ratings

Absolute maximum ratings are those values beyond which functional performance is not intended, device reliability is not implied, and damage to the device may occur.

Parameter	Minimum	Maximum	Unit
Storage temperature (non-operating)	-40	+85	°C
Relative Humidity (non-condensing)	5	95	%

General Operating Conditions

Parameter	
Control	10 way DIP switch, GPI, WEB or Automatic(-D version)
LEDs	Card status, Loss of Signal.
Operating modes	Reclocking 1310nm or CWDM
Number of inputs	2 optical
Number of outputs	2 optical (1x 1310nm and 1x CWDM)
Connectors	LC/UPC

Transmitter Optical Characteristics

Parameter	Minimum	Typical	Maximum	Unit
Transmitting circuit fiber	Single Mode (9/125 μ m)			
Light source	DFB laser			
Optical output power	0		+4	dBm
Optical center wavelength (λ = 1270nm to 1610nm)	λ -6.0nm	λ	λ +7.5nm	nm
Spectral width (-20dB)			1	nm

Receiver Optical Characteristics

Parameter	Minimum	Typical	Maximum	Unit
Transmitting circuit fiber	Single Mode (9/125 μ m)			
Receiver technology	PIN (APD receivers are available on request)			
Optical receiving window	1270		1610	nm
Optical input overload power	-8			dBm
Optical receiver sensitivity (BER=10 ⁻¹² , TX _{EXT} \geq 9dB)			-23	dBm

Norwia AS
Kilgata 12
3217 Sandefjord
Norway

Contact:
phone: +47 33 45 20 90
e-mail: info@norwia.no
web: norwia.com

