DATE SHEET

MODULETEK: MT2011-CWDM-MUXxx

Overview

MT2011 CWDM series coarse wavelength division multiplexer is a low-cost WDM transmission scheme, with optional wavelengths ranging from 1271 nm to 1611 nm and channel spacing of 20 nm. It utilizes the low loss and high bandwidth characteristics of single-mode fiber to couple different wavelengths of light into a single fiber for transmission, effectively improving the utilization of optical fiber and reducing the network operation cost.

MT2011-CWDM-MUXxx has a total of 18 channels, with the advantages of low insertion loss, high isolation, stable performance, and simple use. It is a LGX chassis, which can be easily installed in a conventional cabinet. According to the needs, it can also select any of three special channels, namely, direct, monitoring, and 1310 channels. The direct channel can be used to further expand the network bandwidth; The monitoring channel can be used to monitor the optical power of the service port; 1310 channel can be used for traditional 1310nm 1G/10G/40G/100G rate signal transmission.

Product Features

Low insertion loss
High isolation
Working wavelength width
High reliability and stability
No glue in optical path
Dual LC/UPC interface
LGX chassis

Applications

Electric communication
Campus network
Enterprise network
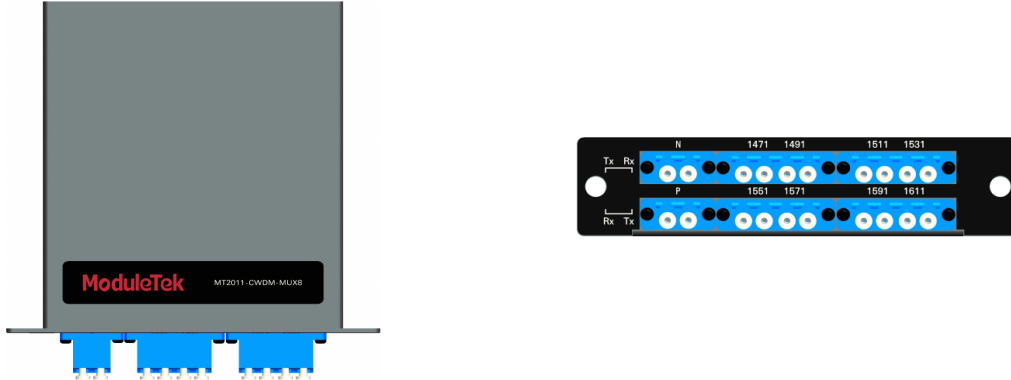MAN and access network
WDM system
Cable TV network

Ordering Information

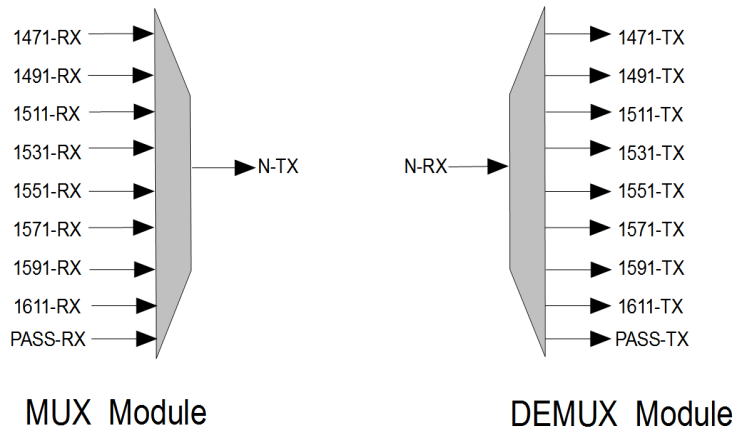| Part Number	Description
MT2011-CWDM-MUXxx-yyzz-Options-00	CWDM,xx is the number of product channels,yyzz is the customized continuous channel wavelength range,00 is the version number,dual-fiber LC interface,LGX chassis
Notes： 1.The "xx" in the "- MUXxx" in the product model is the number of channels of the product, which can be taken as 2, 4, 6, and 8 respectively, representing 2, 4, 6, and 8 channels of coarse wavelength division multiplexers. The "yyzz" in the product model is the ordered continuous channel wavelength range, which can be freely selected from 1271nm-1611nm, with channel spacing of 20nm. 2.The "- Options" in the product model are optional functions of the product, including:M(power monitoring),P(pass-through port),G(1310 channel port). Users can mark the required optional functions in the product model, for example: MT2011-CWDM-MUX8-4761-G-00, that is, 8-channel coarse wavelength division multiplexer, channel wavelength from 1471 to 1611 (that is, 1471149115111531155115711611), and support power monitoring optional functions;If you do not need any optional functions, please ignore the "-Options" part in the product model, for example: MT2011-CWDM-MUX4-4761-00,If the number of channels is eight,you can select only one special port. 3.When your customized wavelength range covers 1310nm, 1310 special channel cannot be customized	
For more information or to order the above products, please contact: E-mail：sales_cn@moduletek.com	

General Product Specifications

Parameter	Unit	CWDM Module			
Number Of Channels	CH	2	4	6	8
Working Wavelength	nm	1270～1610/1271～1611			
Transmission Broadband	nm	±6.5			
Insertion Loss	dB	≤1.5	≤1.5	≤2.0	≤2.5
Adjacent Channel Isolation	dB	≥30			
Non-Adjacent Channel Isolation	dB	≥40			
Return Loss	dB	≥45			
Directivity	dB	≥50			
Package Size	mm	LGX			
Working Temperature	°C	-5～75			
Storage Temperature	°C	-40～85			

Front Panel

Wiring Diagram

1471-RX →		→ 1471-TX
1491-RX →		→ 1491-TX
1511-RX →		→ 1511-TX
1531-RX →	N-TX	→ 1531-TX
1551-RX →	N-RX →	→ 1551-TX
1571-RX →		→ 1571-TX
1591-RX →		→ 1591-TX
1611-RX →		→ 1611-TX
PASS-RX →		→ PASS-TX

MUX Module   DEMUX Module

Dimension (Unit: mm)