

## DATA SHEET

### MODULETEK: MT2010-DWDM-MUX20

#### MT2010-DWDM-MUX20 Overview

The MT2010 DWDM series Dense Wavelength Division Multiplexer is a low-cost WDM transmission solution. Its optional wavelength is in accordance with the ITU 100G channel standard with a channel spacing of 0.8 nm. It utilizes the low loss and high bandwidth characteristics of single mode fiber, and uses AWG arrayed waveguide grating technology to couple different wavelengths of light into one fiber for transmission, which effectively improves the utilization of fiber and reduces the network operation cost.

MT2010-DWDM-MUX20 has 20 channels, which have the advantages of small insertion loss, high isolation, stable performance and simple use. The 19-inch 1U chassis can be easily installed into a conventional cabinet. According to the needs, you can also choose 3 special ports, which are pass port, monitor port and 1310 port. The pass port can be used to further expand the network bandWide; the monitor port can be used to monitor the optical power of the service port; The 1310 port can be used for traditional 1310nm 1G/10G/40G/100G rate signal transmission.

#### Product Features

- 19 inch 1U rack
- 20 channels, customizable special ports
- Low optical insertion loss
- Passive, no electric power required
- Duplex LC/UPC connectors
- Operating temperature range : 0°C to 70°C

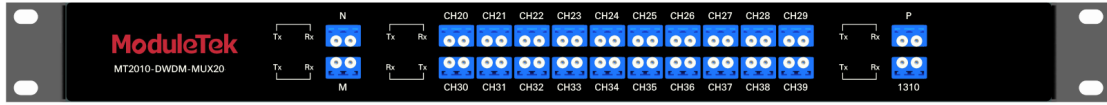
## Ordering Information

Part Number	Description
MT2010-DWDM-MUX20-CH20-CH39	20-channel, CH20 to CH39, ITU 100G Channel, channel spacing 0.8nm, with pass port, monitor port and 1310 port, 19 inch 1U rack
MT2010-DWDM-MUX20-CH40-CH59	20-channel, CH40 to CH59, ITU 100G Channel, channel spacing 0.8nm, with pass port, monitor port and 1310 port, 19 inch 1U rack
<p><b>Notes:</b></p> <p>1.The channel wavelength of the product in the above table and the special port are the default solutions for this model. We can also customize other solutions for customers with special requirements.</p> <p>2.Special ports have pass port, monitor port and 1310 port; Channel wavelength customizable range meets ITU 100G Channel standards.</p> <p>3.When your custom wavelength range covers 1310nm, the 1310 special port will not be customizable.</p>	
<p><b>For More Information:</b>            ModuleTek Limited            Web: <a href="http://www.moduletek.com">www.moduletek.com</a>            Email: <a href="mailto:sales@moduletek.com">sales@moduletek.com</a></p>	

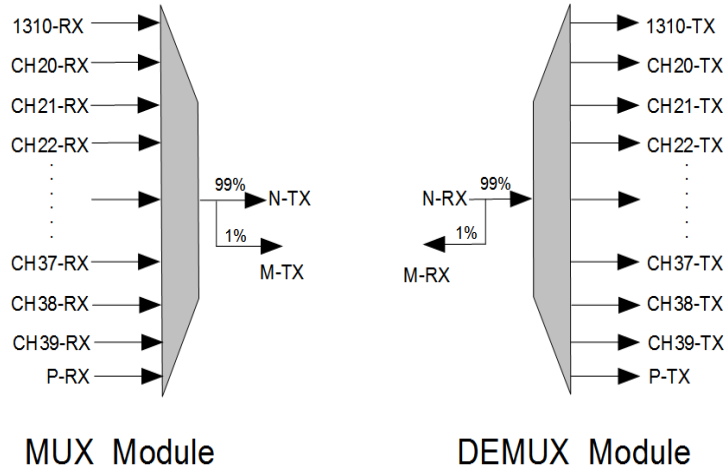
## General Specifications

Parameter	Spec	Unit
Insertion Loss	Typ 4.0	dB
	Max 4.2	
Center Wavelength	ITU 100G Channel	nm
Channel Spacing	0.8	nm
Channel Bandwidth	±0.1	nm
1310 channel bandwidth	±40	nm
Adjacent Channel Isolation	≥30	dB
Non-Adjacent Channel Isolation	≥40	dB
Return Loss	≥50	dB
Directivity	≥55	dB
Operating temperature	0 to 70	°C
Storage temperature	-40 to 85	°C
Connector Type	LC/UPC	-

## Front Panel



## Wiring Diagram



## Dimensions (Unit: mm)

