FS

4ch Single Fiber 1273.55-1286.66nm LAN-WDM Mux Demux, Side-B

ABS Pigtailed Module, LC/UPC
Easy to Put in Splice Closure/Distribution Box for Outdoor Application

Overview

Single Fiber LAN-WDM Mux Demux is usually used for 5G fronthaul network where wavelengths are packed tightly together over the O-band, up to 8 wavelengths in 800GHz grid (4.5nm).
Based on Thin-Film-Filter (TFF), this LAN-WDM Mux Demux features small form factor, ultra-low insertion loss, high channel isolation, and unparallel reliability.

Features

- Based on high quality TFF technology
- Nearly at the zero-dispersion wavelength
- Low insertion loss
- Industrial temperature -40 ℃~+ 85 ℃
- Passive, no electric power required (MTBF ca. 500 years)
- Following 100Gbps IEEE 802.3ba Standard
- Combines/separates 4 channels with a LAN WDM spacing

Technical Data

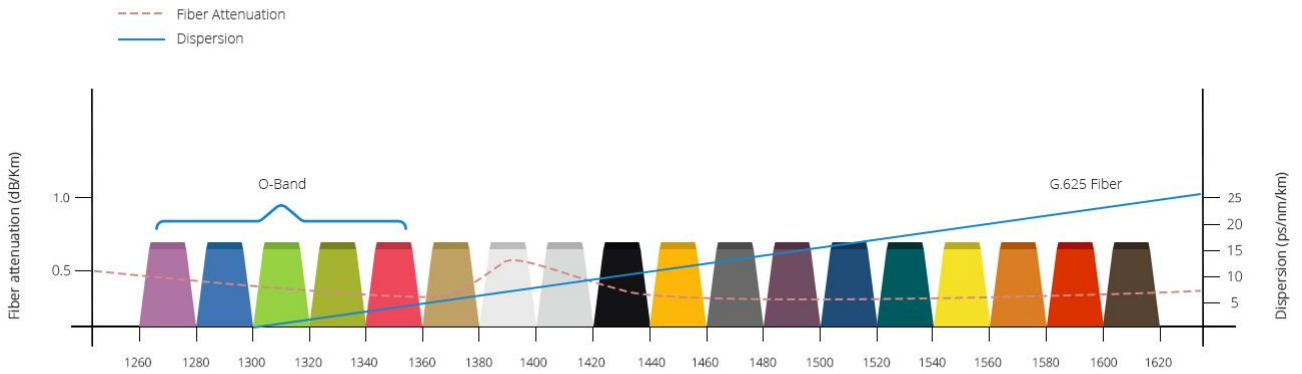| Parameter	Value
Center Wavelength	1273.55nm, 1277.89nm, 1282.26nm, 1286.66nm
Channel Spacing	4.5nm
Channel Passband	± 1.15nm
Insertion Loss (Passband)	≤ 1.9dB
Adjacent Channel Isolation	≥ 25dB
Non-adjacent Channel Isolation	≥ 30dB
Technology	TFF (Thin Film Filter)
Passband Ripple	≤ 0.3dB
Directivity	≥ 50dB
Return Loss	≥ 45dB
PDL	≤ 0.3dB
PMD	≤ 0.1ps
Power Handling	≤ 300mW
Operating Temperature	-40 ℃~+ 85 ℃
Storage Temperature	-40 ℃~+ 85 ℃
Fiber Type	G657 A1
Connector Type	LC/UPC
Pigtail Type	0.9mm loose tube
Fiber Length	1.00 ± 0.05m
Warranty	3 years warranty with free technical support
Dimensions (Hx Wx D)	0.39"x 3.15"x 3.94" (10x 80x 100mm)

Notes:

1.Specified with connectors and adapters.

Product Highlights

1. Low Dispersion Wavelengths

The LAN-WDM wavelengths are more tightly spaced than CWDM wavelengths, and are located nearly at the zero-dispersion wavelength of the fiber (ITU-T G.652 fiber). This wavelength allocation enables signal transmission without restricted by fiber dispersion.

2. Single Fiber BIDI Transmission

LAN-WDM Mux Demux can multiplex different wavelengths into one fiber to save fiber resources.
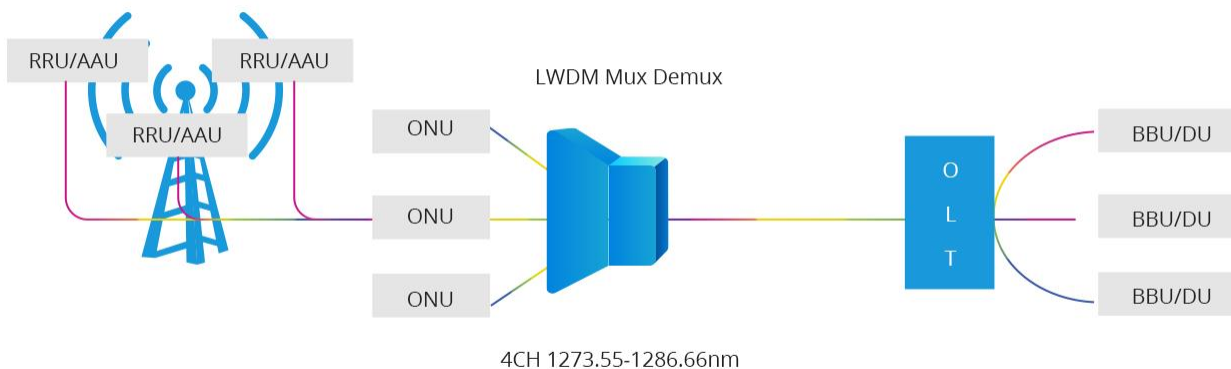
5G Network Fronthaul Application

1. Point-to-Point WDM Network

RRU/AAU

RRU/AAU

RRU/AAU

LWDM Mux Demux

LWDM Mux Demux

BBU/DU

BBU/DU

BBU/DU

4CH 1295.56-1309.14nm

4CH 1273.55-1286.66nm

2. WDM-PON Network

RRU/AAU

RRU/AAU

RRU/AAU

ONU

ONU

ONU
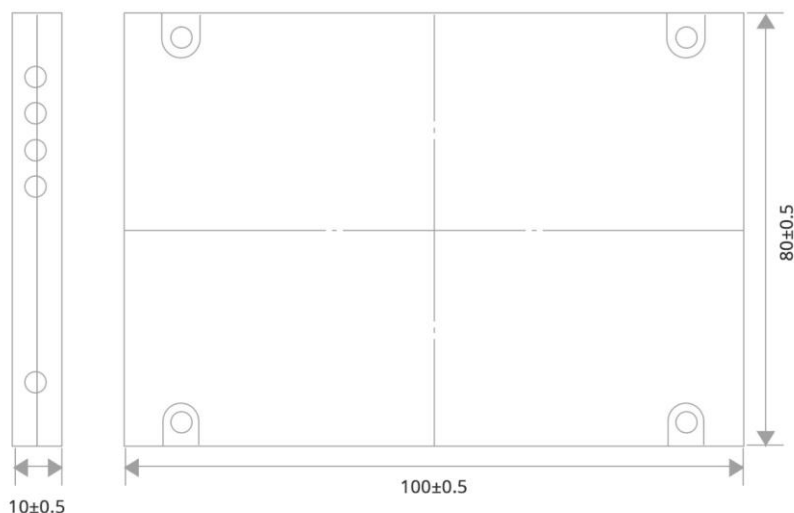
LWDM Mux Demux

OLT

BBU/DU

BBU/DU

BBU/DU

4CH 1273.55-1286.66nm

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Layout and Dimensions

The dimensions of LAN-WDM Mux Demux is 10x 80x 100mm, which enables multiple use without taking up any extra space and is suitable for different cabinets to meet diverse needs.

Dimensions (HxWxD): 10x 80x 100mm

Ordering Information

Mux Demux & OADM		
DWDM MUX DEMUX	FMU-D402160M3	40 Channels 100GHz C21-C60, with 1310nm and Monitor Port, 3.5dB Typical IL, LC/UPC, Dual Fiber DWDM Mux Demux, 1U Rack Mount #35887
	M6200-D2160M	40 Channels 100GHz C21-C60 Dual Fiber DWDM Mux and Demux with Monitor Port, Pluggable Module, LC/UPC, Integrated with M6200 Series Managed Chassis #120424
	FMU-D162136EM3	16 Channels 100GHz C21-C36, with Monitor, Expansion and 1310nm Port, LC/UPC, Dual Fiber DWDM Mux Demux, 1U Rack Mount #72430
	FMU-MD085360EM3	CWDM/DWDM Hybrid Solution, 8 Channels 100GHz C53-C60, with Monitor, Expansion and 1310nm Port, LC/UPC, Dual Fiber DWDM Mux Demux, FMU Plug-in Module #72433
CWDM MUX DEMUX	FMU-C182761M	18 Channels 1270-1610nm, with Monitor Port, LC/UPC, Dual Fiber CWDM Mux Demux, 1U Rack Mount #33489
	FMU-MC084761EM	8 Channels 1470-1610nm, with Monitor and Expansion Port, LC/UPC, Dual Fiber, Low Insertion Loss CWDM Mux Demux, FMU Plug-in Module #78163
LWDM MUX DEMUX	ABS-L042728B	4 Channels 1273.55-1286.66nm, Single Fiber LAN-WDM Mux Demux, Side-B, ABS Pigtailed Module, LC/UPC#97783
	ABS-C064757B	6 Channels 1471-1571nm, Single Fiber CWDM Mux Demux, Side-B, ABS Pigtailed Module, LC/UPC#97785
OADM	DOADM-DF	Customized Dual Fiber & Single Fiber DWDM OADM #70427
	COADM-DF	Customized Dual Fiber & Single Fiber CWDM OADM #70425
Chassis	FMU-1UFMX-N	FMU 2-Slot 1U 19" Rack Chassis Unloaded, holds up to 2 Units FMU Plug-in Module #30408
	FUD-1UFMX-N	FUD 4-Slot 1U 19" Rack Chassis Unloaded, holds up to 4 Units FUD Plug-in Module #106578

TRANSPONDERS & MUXPONDERS

8x 200G	M6800-TSP16	16x 100G QSFP28 to 8x 200G CFP2 OTN Managed Transport Platform#111053
100G/200G	M6500-TMXP5	2x 100G QSFP28/4x 40G QSFP+ to 1x 200G CFP2 Transponder/Muxponder#111049
10G	M6200-OEO10G	5 Channels WDM Transponder (Converter), 10 SFP/SFP+ Slots#107365
Chassis	M6500-CH2U	2U Managed Chassis Unloaded Platform, Supports 2x 200G Transponder/Muxponder #96454
	M6500-CH5U	5U Managed Chassis Unloaded Platform, Supports 6x 200G Transponder/Muxponder #111050
	M6200-CH2U	2U Managed Chassis Unloaded Platform, Supports 7x Mux/DEMUX/EDFA/OEO/OLP/DCM Cards #107371
	M6200-CH5U	5U Managed Chassis Unloaded Platform, Supports 15x MUX/DEMUX/EDFA/OEO/OLP/DCM Cards #111052

OPEN LINE SYSTEM

Amplifiers	M6200-25PA	25dB Gain DWDM EDFA Pre-Amplifier, 16dBm Output#107367
	M6200-20BA	20dBm Output DWDM EDFA Booster Amplifer, 16dB Gain#107366
Dispersion Compensation	M6200-DCM40	40KM DCF-based Passive Dispersion Compensation Module#107370
	M6200-DCM80	80KM DCF-based Passive Dispersion Compensation Module#119071
Line Protection	M6200-OLP2	1+1 Optical Line Protection Switch (OLP)#107368
Red/Blue Filter	M6200-RB	1x2 Single Fiber DWDM Red/Blue Filter#107369
VOA Units	M6200-SFPVOA	SFP Variable Optical Attenuator Module#107373
	AT-M-LCU	Fixed Fiber Optic Attenuators #70009
Chassis	M6200-CH2U	2U Managed Chassis Unloaded Platform, Supports 7x Mux/DEMUX/EDFA/OEO/OLP/DCM Cards #107371
	M6200-CH5U	5U Managed Chassis Unloaded Platform, Supports 15x MUX/DEMUX/EDFA/OEO/OLP/DCM Cards #111052

WDM TRANSCEIVERS

100G/200G CFP2	M-CFP2-DCO	C14 1566.31nm 100G/200G Tunable CFP2-DCO Coherent Transceiver, up to 1000km #120128
25G SFP28	DWDM-SFP25G-10	25G DWDM SFP28 100GHz 1563.86nm 10km DOM LC SMF Optical Transceiver Module #87000
	CWDM-SFP25G-40S	25G 1270nm CWDM SFP28 40km DOM LC SMF Optical Transceiver Module #100112
	CWDM-SFP25G-10SP	25G 1270nm CWDM SFP28 10km DOM LC SMF Optical Transceiver Module #76003
	LWDM-SFP25G-40	25G LWDM SFP28 1286.66nm 40km DOM LC SMF Optical Transceiver Module #93786
16G/8G FC	DWDM-SFP16G-40	Customized 16G DWDM SFP+ C20-C61 100GHz 40km DDM LC SMF Transceiver Module#73084
	DWDM-SFP16GH-40	Customized 16G DWDM SFP+ 50GHz 40km DDM LC SMF Transceiver Module #73085
	CWDM-SFP16G-40	Customized 16G Fiber Channel CWDM SFP+ 1470-1610nm 40km DDM LC SMF Transceiver Module #80765
10G SFP+	DWDM-SFP10G-80	10G DWDM SFP+ 1559.79nm 80km DOM LC SMF Transceiver Module, Commercial Temperature#31237, Industrial Temperature#113562
	DWDM-SFP10G-40	10G DWDM SFP+ 1560.61nm 40km DOM LC SMF Transceiver Module, Commercial Temperature#38731, Industrial Temperature#113511
	DWDM-SFP10G-C	10G DWDM C-band Tunable SFP+ 50GHz 80km DOM LC SMF Transceiver Module #69267
	CWDM-SFP10G-80L	10G CWDM SFP+ 1470nm 80km DOM LC SMF Transceiver Module #19367
	CWDM-SFP10G-40S	10G CWDM SFP+ 1270nm 40km DOM LC SMF Transceiver Module, Commercial Temperature#22168, Industrial Temperature#112392
1G SFP	DWDM-SFP1G-EZX	1000BASE-DWDM SFP 100GHz 1563.86nm 100km DOM LC SMF Transceiver Module #54150
	DWDM-SFP1G-ZX	1000BASE-DWDM SFP 1563.86nm 80km DOM LC SMF Transceiver Module #47697
	CWDM-SFP1G-EZX	1000BASE-CWDM SFP 1270nm 120km DOM LC SMF Transceiver Module #102776
	CWDM-SFP1G-ZX	1000BASE-CWDM SFP 1270nm 80km DOM LC SMF Transceiver Module #33234

*Standard products are listed above. Customized specifications are available upon request.

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The information in this document is subject to change without notice. FS has made all efforts to ensure the accuracy of the information, but all information in this document does not constitute any kind of warranty.