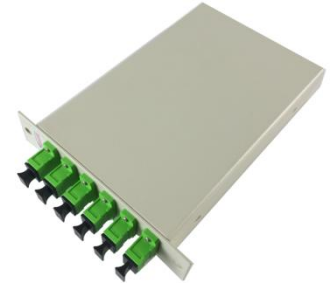


## Simplex Bi-directional DWDM Mux & Demux

Auxora's Simplex BiDi DWDM MUX&DEMUX Module is designed to combine/separate multiple DWDM signals (up to 48 channels) into one fiber through TFF technology. We can provide full complete configuration such as 2, 4, 8, 16, up to 48 channels.

Auxora can also provide customized design to suit options of CWDM upgrade port, DWDM upgrade port, monitor ports, bi-directional com port TX/RX, 1310nm and 1550nm wideband port for existing 1310nm and 1550nm equipment.



### FEATURES

- Low insertion loss and High channel isolation
- Exceptional reliability and stability
- Optional extension and wide band ports for network upgrade, existing equipment or add/drop
- Epoxy free optical path
- Telcordia GR-1221 and GR1209 compliant

### APPLICATIONS

- DWDM system
- CATV links
- Wavelength routing
- PON network

### SPECIFICATIONS

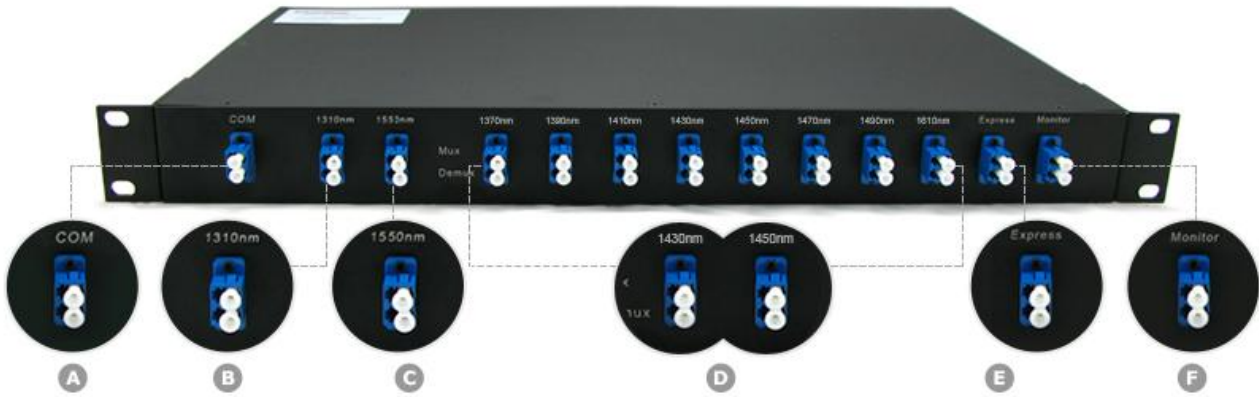
Parameters		1CH	2CH	3CH	4CH	5CH	6CH	7CH	8CH
Operating Wavelength (nm)		1520~1620							
Channel Spacing (GHz)		100							
Channel Passband (nm)		ITU±0.11							
IL (dB)		≤1.0	≤1.6	≤2.0	≤2.5	≤3.0	≤3.4	≤3.8	≤4.0
Isolation (dB)	Adjacent Channel	≥25							
	Non-Adjacent Channel	≥40							
Pass band Ripple (dB)		≤0.5							
PDL (dB)		≤0.2							
PMD (ps)		≤0.1							
RL (dB)		≥50							
Directivity (dB)		≥50							
Max. Optical Power (mw)		300							
Operating Temperature (°C)		-5~75							
Storage Temperature (°C)		-40~85							
Fiber Type		Corning SMF-28e or G657A							
Package Dimension (mm)		ABS or LGX or 19" Rack or Customized							

### NOTES:

- 1) All specifications are based on the devices without connectors, and guaranteed over wavelength, polarization and temperature.
- 2) PMD and chromatic dispersion values are guaranteed by design.
- 3) IL is 0.3 dB higher, RL is 5 dB lower for connector added.
- 4) For modules with monitoring port/skipper UPG port/1310nm legacy port, IL is 0.3dB higher.
- 5) Specifications are subject to change without notice.

**Packing Types & Front Panels**

- 19" 1RU Rack chassis or 23" 1RU Rack chassis



- LGX Metal Box



- ABS BOX:



**A. Common port:**

- LC, SC, ST and FC connectors available.

**B. Monitor port:**

- Connects measurement/monitoring equipment, such as power meters or network analyzers, to the module outputs. When finished monitoring, disconnect the instruments and the network is left undisturbed.
- LC, SC, ST and FC connectors available.
- Tap percentage is 1% as default, 2%, 3%, 5%, or 10% available on request.

**C. Express port:**

- Enables the cascading of two DWDM mux/demux modules, doubling the channel capacity on the common fiber link.
- Channel Isolation is 12dB as default, 16dB ~30dB available on request.
- LC, SC, ST and FC connectors available.


**D. Standard port 1310nm:**


- Allows a legacy 1310nm signal to pass. That is to say, it can carry LR optics, LX optics etc.
- LC, SC, ST and FC connectors available.

**E. Mux/Demux port for specific ITU-Grid Channels**

- LC, SC, ST and FC connectors available.
- Compliant with the ITU G.657A1 standard as default. These are available in ITU G.652, ITU G.652C and ITU G.652D on request.

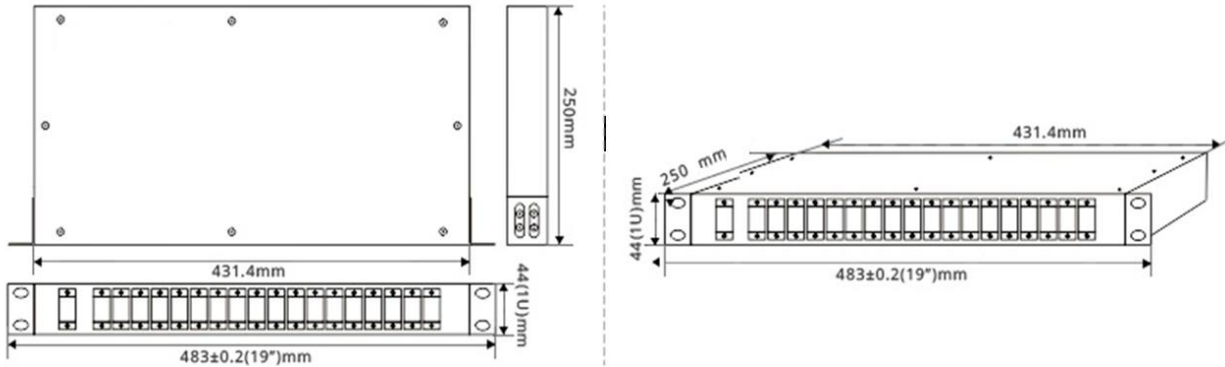
**NOTE:**

 Actual layout depends on the chosen connector type as well as other factors. However, the principal scheme stays the same.

 We provide optional port configurations such as: Express Port, Monitor Port, 1310nm passband port and 1550nm port for these multiplexers according to customer choice, need more details, please contact [saleschina@auxora.cn](mailto:saleschina@auxora.cn)

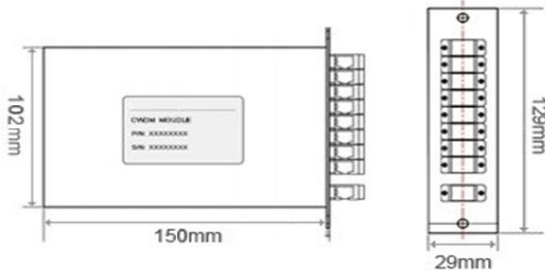
**Mechanical Drawing: (only for reference)**

- 19" 1RU Rack chassis or 23" 1RU Rack chassis



- LGX Metal Box

LGX-Three (Standard): Fit to Empty 4RU 19 inch Rack Mount beside

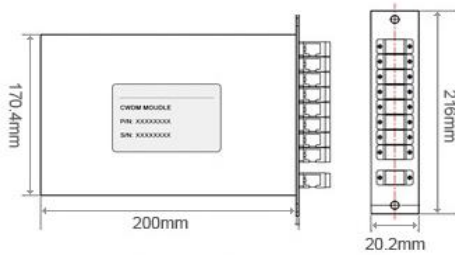


150 x 129 x 29 mm



4RU rackmount holding 12pcs LGX-Three

LGX-Two: Fit to Empty 1RU 19 inch Rack Mount beside

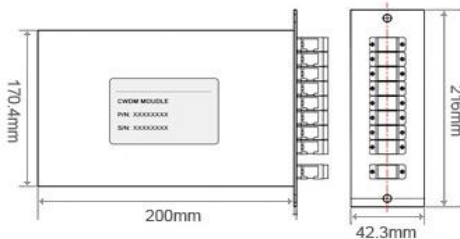


200 x 216 x 20.2mm



1RU rackmount holding 4pcs LGX-Two

LGX-One: Fit to Empty 1RU 19 inch Rack Mount beside

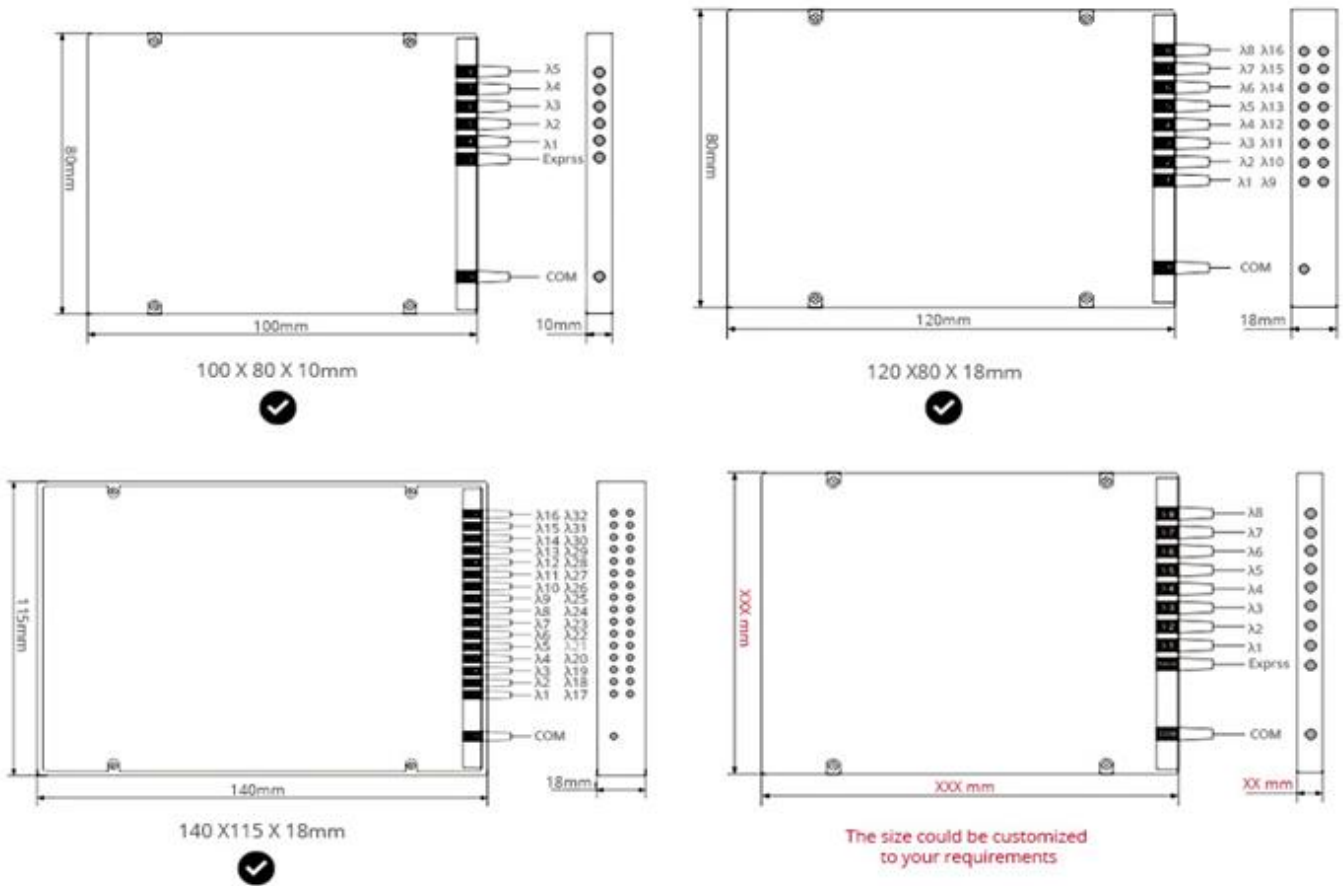


200 x 216 x 42.3 mm



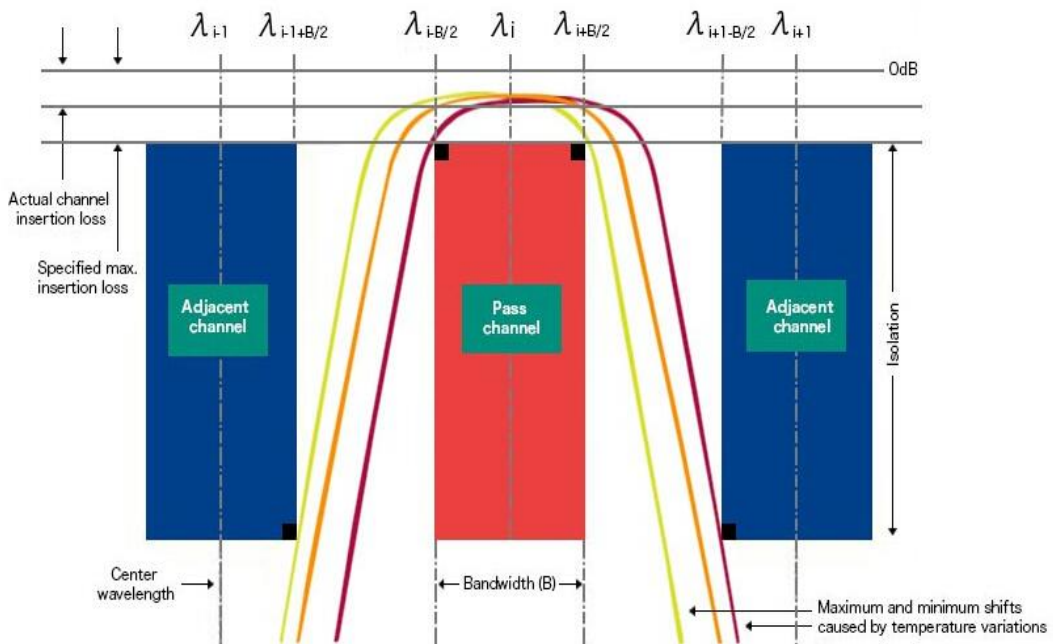
1RU rackmount holding 2pcs LGX-One

● **ABS Box**

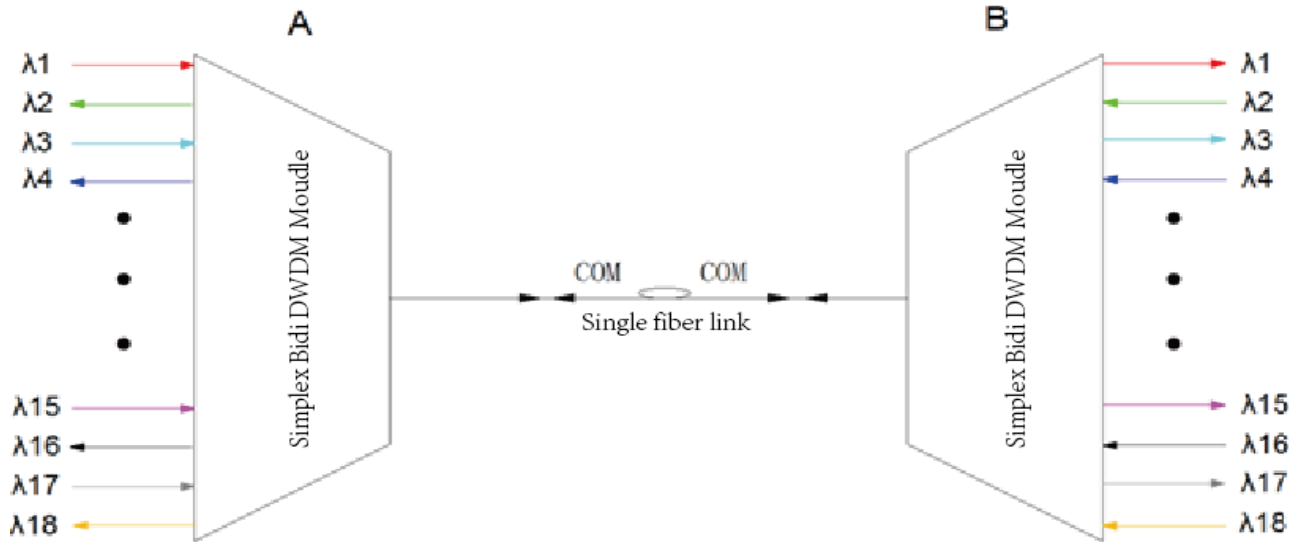


Please note that the drawings shown here only refer to the dimensions and don't not show the specific configuration of the module.

**Typical Spectral Diagram:**



**Inter-connect Diagram:**



**Ordering Information: (e.g.ADM-12080020PS1-1010-55)**

ADM-	X	X	XX	XX(X)	XX	XX	X	-		-	X	X									
								WDM Type	Module Type				Port Configuration	Special Ports	Initial Wavelength	Package Type	Fiber Jacket	Fiber Length		Connector	
																		Input	Output	Input	Output
	1=100GHz	2=Mux+Demux over single fiber	01=1-CH	00=None	15=C15	P0=80*60*8	0=250um Bare fiber	10=1.0m	10=1.0m		0=None	0=None									
	2=200GHz	X= customized	02=2-CH	01=1310nm Port	16=C16	P1=80*60*12	1=900um tube	12=1.2m	12=1.2m		1=FC/UPC	1=FC/UPC									
			.....	02=Monitor Port	.....	P2=125*96*15	2=2.0mm Cable	-----	-----		2=FC/APC	2=FC/APC									
			48=48-CH	03=Express Port	72=C72	P5=100*80*10	3=3.0mm Cable	15=1.5m	15=1.5m		3=SC/UPC	3=SC/UPC									
				04=UPG with Skipper		PM=120*80*18	N=NA	NA=N/A	NA=N/A		4=SC/APC	4=SC/APC									
				12=1310nm+Mon.		PL=140*115*18	X=Customized	XX=customized	XX=customized		5=LC/UPC	5=LC/UPC									
				13=1310nm+EXP.		L1=LGX -One					6=LC/APC	6=LC/APC									
				42=UPG+Monitor		L2=LGX -Two					XX=Customized	XX=Customized									
				-----		L3=Standard LGX															
				123=Express+Monitor +EXP.		19=19"rack mount															
						XX= customized															