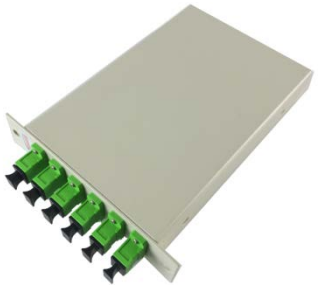
Duplex DWDM OADM Module



Auxora's Dual DWDM OADM is designed to add/drop DWDM signals into two fibers, which makes it a flexible, low-cost solution for increasing the bandwidth demand on enterprise and metro access networks. It can simultaneously support ESCON, ATM, Fiber Channel, Gigabit-Ethernet, without disturbing each other.

Auxora provides customized design to suit situations in which your existing network has one or two fibers, redundant network, ring or linear network design etc.

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
- Access network
- Metro WDM systems
- Enterprise 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)	Add &Drop	≤1.0	≤1.3	≤1.6	≤1.8	≤2.0	≤2.2	≤2.4	≤2.6
	Express Channel	≤0.8	≤1.2	≤1.8	≤2.4	≤3.0	≤3.6	≤4.2	≤4.8
Isolation (dB)	Adjacent Channel	≥25							
	Non-Adjacent Channel	≥40							
	Express Channel	≥20							
Pass band Ripple (dB)		≤0.5							
PDL (dB)		≤0.2							
PMD (ps)		≤0.1							
RL (dB)		≥50							
Directivity (dB)		≥50							
Max. Optical Power (mw)		500							
Operating Temperature (℃)		-5～75							
Storage Temperature (℃)		-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.

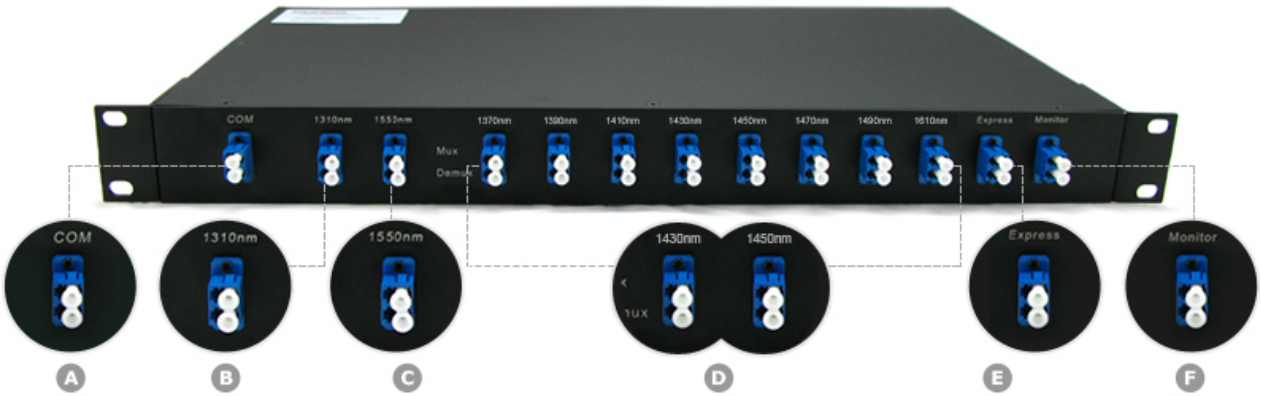
3) IL is 0.3 dB higher, RL is 5 dB lower for connector added.

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.

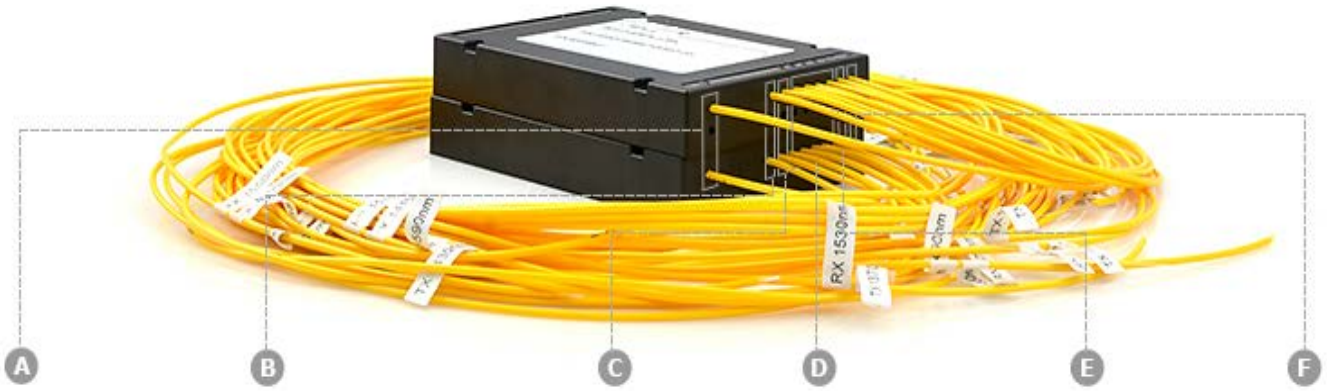
Packing Types & Front Panels

- **19'' 1RU Rack chassis or 23'' 1RU Rack chassis**



- **LGX Metal Box**

- **ABS BOX:**



A. Common port:

- Trunk input and output in both west and east traffic.
- LC, SC, ST and FC connectors available.

B. Add/Drop port on west:

- Add and Drop on west.
- LC, SC, ST and FC connectors available.
- Compliant to ITU-T G.657A1 DWDM standard, 100GHz Grid.

C. Add/Drop port on east:

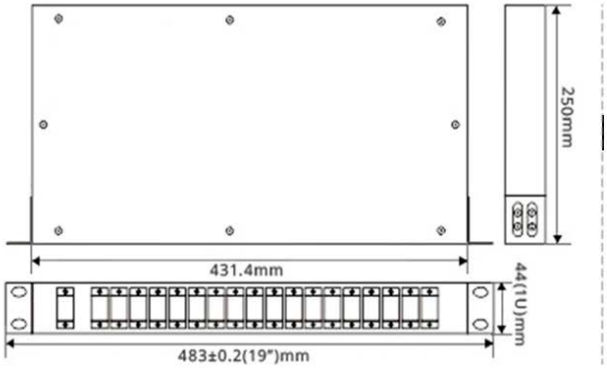
- Add and Drop on east.
- LC, SC, ST and FC connectors available.
- Compliant to ITU-T G.657A1 DWDM standard, 100GHz Grid.

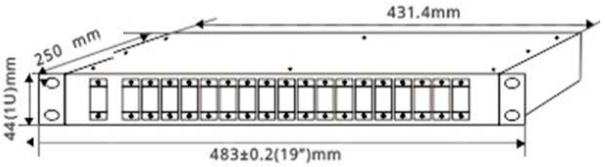
NOTE:

- 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

Mechanical Drawing: (only for reference)

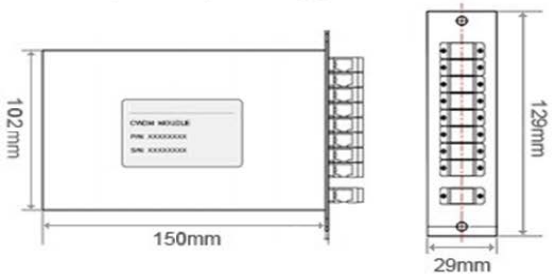
- **19'' 1RU Rack chassis or 23'' 1RU Rack chassis**





- **LGX Metal Box**

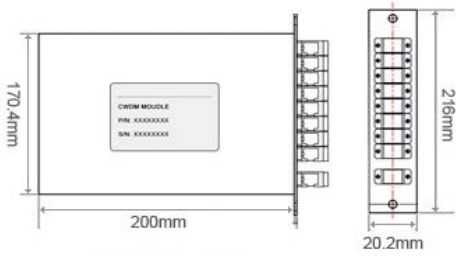
LGX-Three (Standard): Fit to Empty 4RU 19 inch Rack Mount beside



150 x 129 x 29 mm

4RU rackomunt holding 12pcs LGX-Three

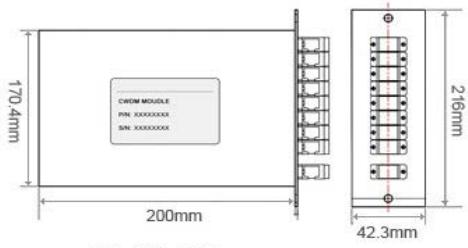
LGX-Two: Fit to Empty 1RU 19 inch Rack Mount beside



200 x 216 x 20.2mm

1RU rackmount holding 4pcs LGX-Two

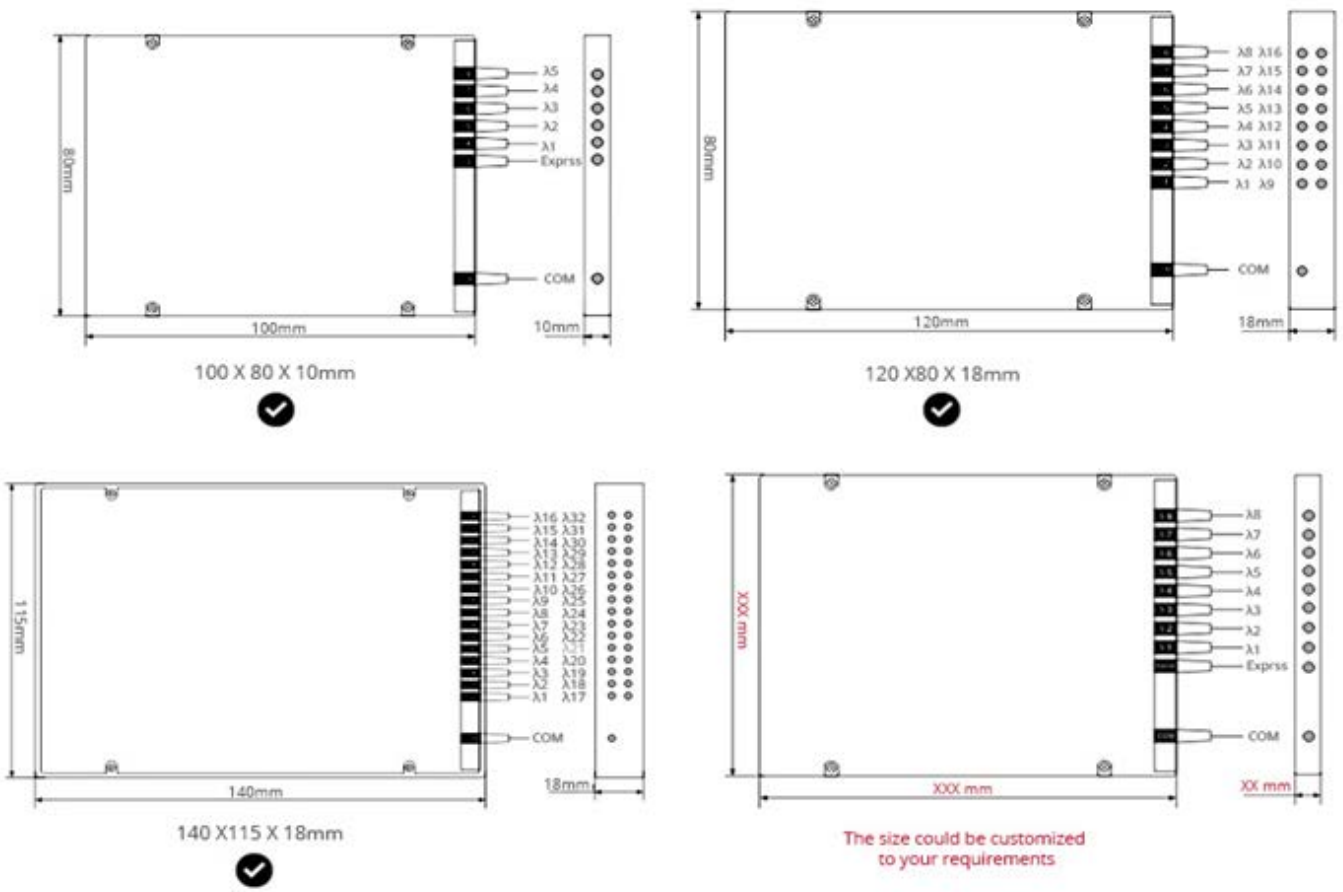
LGX-One: Fit to Empty 1RU 19 inch Rack Mount beside



200 x 216 x 42.3 mm

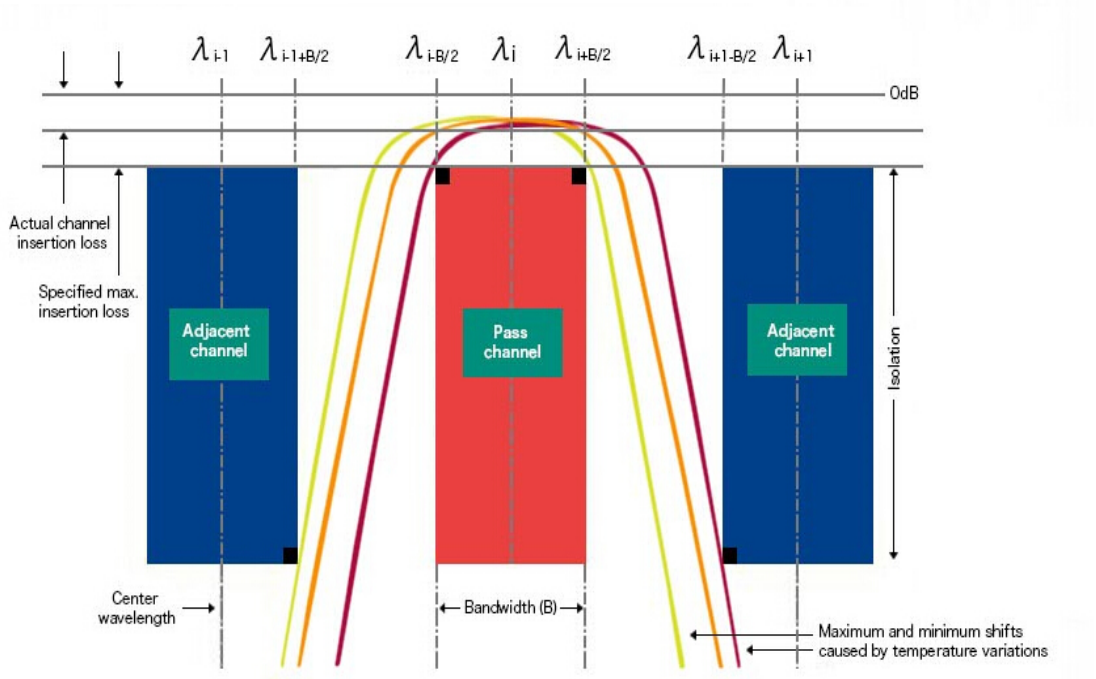
1RU rackmount holding 2pcs LGX-One

- **ABS Box**

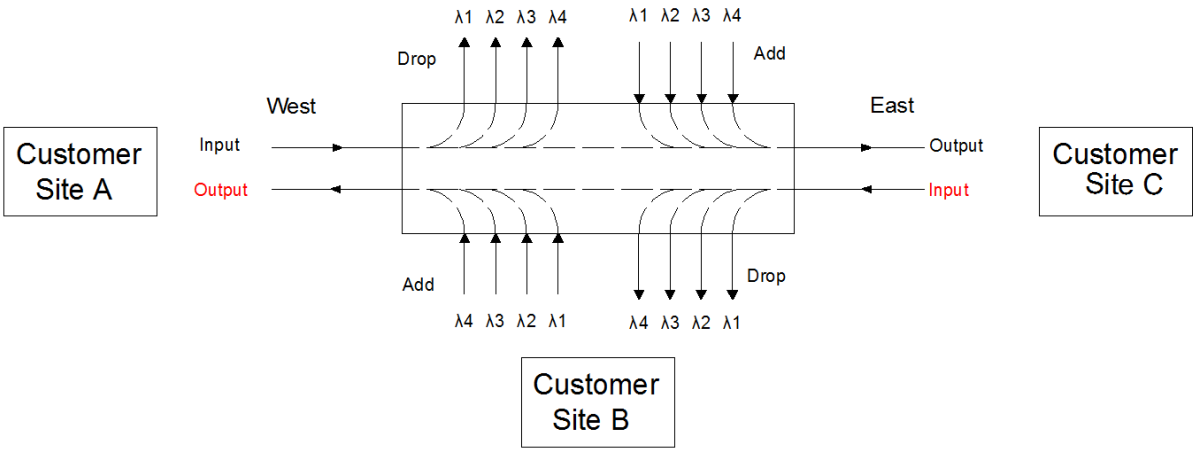


Please note that the drawings shown here only refer to the dimensions and don't not show the specific configuration of the module.

Typical Spectral Diagram:



Inter-connect Diagram:



Ordering Information: (e.g.ADM-1DD040020PS1-101010-555)

ADM-	X	X	XX	XX(X)	XX	XX	X	-	XX	XX	XX	-	X	X	X
	WDM Type	Module Type	Port Configuration	Special Ports	Initial Wavelength	Package Type	Fiber Jacket		Fiber Length				Connector		
									Input	Add/Drop	Output		Input	Add/Drop	Output
	1=100GHz	DD=Duplex OADM	01=1-CH	00=None	15=C15	P0=80*60*8	0=250um Bare fiber		10=1.0m	10=1.0m	10=1.0m		0=None	0=None	0=None
	2=200GHz		02=2-CH	01=1310nm Port	16=C16	P1=80*60*12	1=900um tube		12=1.2m	12=1.2m	12=1.2m		1=FC/UPC	1=FC/UPC	1=FC/UPC
			……	02=Monitor Port	……	P2=125*96*15	2=2.0mm Cable		------	------	------		2=FC/APC	2=FC/APC	2=FC/APC
			08=8-CH	03=Express Port	72=C72	PS=100*80*10	3=3.0mm Cable		15=1.5m	15=1.5m	15=1.5m		3=SC/UPC	3=SC/UPC	3=SC/UPC
				04=UPG with Skipper		PM=120*80*18	N=NA		NA=N/A	NA=N/A	NA=N/A		4=SC/APC	4=SC/APC	4=SC/APC
				12=1310nm+Mon.		PL=140*115*18	X=Customized		XX=customized	XX=customized	XX=customized		5=LC/UPC	5=LC/UPC	5=LC/UPC
				13=1310nm+EXP.		L1=LGX -One							6=LC/APC	6=LC/APC	6=LC/APC
				42=UPG+Monitor		L2=LGX -Two							XX=Customized	XX=Customized	XX=Customized
				------		L3=Standard LGX									
				123=Express+Monitor +EXP.		19=19"rack mount									
						XX= customized									