

## 4 Channel DWDM OADM, LGX

### Features

- Add/Drop: 4 DWDM Channels
- Monitor Port: 2%
- 10 Variants: ITU Ch 20-59
- Technology: DWDM
- Configuration: OADM
- Form Factor: LGX
- Temp Range: I-Temp

### Topologies

- 4ch Add/Drop
- Point to Point
- Linear Chain
- Collapsed/Diverse Ring

### Deployment

- Central Office, Head End, Data Center
- Pedestal, Cabinet, MDU

### Overview

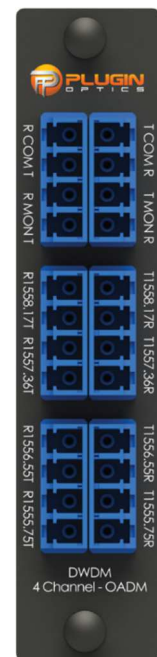
DWDM Optical Add/Drop Multiplexers (OADM) allow for midspan access of DWDM channels along a single mode fiber route. 4 channel DWDM OADMs are commonly used at sites along a fiber route carrying 8 to 40+ DWDM channels and allow access to 4 channels while expressing the remaining channels through the site.

PlugIn Optics DWDM OADM filter solutions are passive and require no power, or configuration. OADM filters are used to allow adding and dropping of DWDM wavelengths, West and East, along a single mode fiber route and provide a high quality, low loss, fiber capacity solution.

Plugin Optics LGX mounting solutions support controlled environment and I-Temp deployments.



PLO-L3DT-A4D2-LC





Technical Specifications				
Parameter	Unit		Specification	
Number of channels	CH		4 DWDM, West & East	
Operating Wavelength	nm		1520-1570	
DWDM Channel Spacing	GHz		100	
Passband: Express	nm		1520-1570	
Passband: DWDM Channels	nm		ITU ± .11	
Insertion Loss Including Connectors			Demux	Mux
Express Loss, COM to COM	Max.	dB	3.5	3.5
DWDM Channels, COM to DWDM CH	Max.	dB	2.7	2.7
Monitor	Max.	dB	19	21.7
Adjacent and 1310 channel Isolation	Max.	dB	30	
Non-Adjacent channel Isolation	Max.	dB	40	
Pass Band Ripple / DWDM	Max.	dB	0.5	
PDL /DWDM	Max.	dB	0.2	
PMD	Max.	ps	0.2	
Directivity	Min.	dB	50	
Return Loss	Min.	dB	45	
Power Handling	Max.	mW	300	
Dimensions (H x W): Faceplate	mm		28.8 x 130	
Dimensions (H x W x D): LGX Box	mm		28.8 x 100 x 76.2	
Dimensions: Nylatch Spacing	mm		118	
Operating Temperature	°C		-40 ~ +85	
Storage Temperature	°C		-40 ~ +85	
Fiber Type	/		SMF 28	
Connector type	/		LC/UPC	



Ordering Information	
Part Number	Description
PLO-L3DT-A4D1-LC	LGX, 4 Channel DWDM OADM, ITU C20-C23, 1561.42, 1560.61, 1559.79, 1558.98, 2% Monitor, LC-UPC
PLO-L3DT-A4D2-LC	LGX, 4 Channel DWDM OADM, ITU C24-C27, 1558.17, 1557.36, 1556.55, 1555.75, 2% Monitor, LC-UPC
PLO-L3DT-A4D3-LC	LGX, 4 Channel DWDM OADM, ITU C28-C31, 1554.94, 1554.13, 1553.33, 1552.52, 2% Monitor, LC-UPC
PLO-L3DT-A4D4-LC	LGX, 4 Channel DWDM OADM, ITU C32-C35, 1551.72, 1550.92, 1550.12, 1549.32, 2% Monitor, LC-UPC
PLO-L3DT-A4D5-LC	LGX, 4 Channel DWDM OADM, ITU C36-C39, 1548.51, 1547.72, 1546.92, 1546.12, 2% Monitor, LC-UPC
PLO-L3DT-A4D6-LC	LGX, 4 Channel DWDM OADM, ITU C40-C43, 1545.32, 1544.53, 1543.73, 1542.94, 2% Monitor, LC-UPC
PLO-L3DT-A4D7-LC	LGX, 4 Channel DWDM OADM, ITU C44-C47, 1542.14, 1541.35, 1540.56, 1539.77, 2% Monitor, LC-UPC
PLO-L3DT-A4D8-LC	LGX, 4 Channel DWDM OADM, ITU C48-C51, 1538.98, 1538.19, 1537.40, 1536.61, 2% Monitor, LC-UPC
PLO-L3DT-A4D9-LC	LGX, 4 Channel DWDM OADM, ITU C52-C55, 1535.82, 1535.04, 1534.25, 1533.47, 2% Monitor, LC-UPC
PLO-L3DT-A4D0-LC	LGX, 4 Channel DWDM OADM, ITU C56-C59, 1532.68, 1531.90, 1531.12, 1530.33, 2% Monitor, LC-UPC
<i>Note: See PlugIn Optics LGX Mounting Chassis below.</i>	

## LGX Mounting Chassis

### Features

#### UMM-20

- 2 LGX slots
- Magnet or Wall Mount

#### UMS-30

- 1RU, 3 LGX slots
- 19" or 23" racks
- Integrated fiber management

#### UMS-140

- 3RU- 14 LGX slots
- 19" or 23" racks
- Integrated fiber management

PlugIn Optics offers carrier grade, cost effective mounting solutions for LGX module deployments.

### UMM-20 "Universal Magnet Mount"

#### Part#: PLO-0RU-UMC-2LGX

Designed for rack space limited deployments, for example pedestals, cabinets or MDU environments where rack space may not be available. The UMM-20 can be magnet mounted to the steel walls or screwed directly into a wall board. This chassis will hold two LGX modules.



### UMS-30 "Universal Mounting Shelf"

#### Part#: PLO-1RU-LMC-3LGX

Designed for 1RU rack deployments, for example Central Office, Head End, Data Center, Cabinet and MDU. The UMS-30 has reversible mounting brackets and can be mounted in 19" or 23" racks. The chassis has integrated fiber management and will hold three LGX modules.



### UMS-140 "Universal Mounting Shelf"

#### Part#: PLO-3RU-LMC-14LGX

Designed for 3RU deployments, for example Central Office, Head End and Data Center. The UMS-140 has reversible mounting brackets and can be mounted in 19" or 23" racks. The chassis has integrated fiber management and will hold fourteen LGX modules.

