

## LGX 5 Channel CWDM + 1310nm & 1550 Wideband

### Features

- Capacity Gain: 7 to 1
- Monitor Port: 2%
- CWDM + 1310 + 1550
- Configuration: Mux/Demux
- Form Factor: LGX
- Temp Range: I-Temp

### Topologies

- Point to Point
- Linear Chain
- Collapsed/Diverse Ring

### Deployment

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

### Overview

The LGX 5 channel CWDM + 1310nm & 1550nm wideband provides a solid capacity solution for modern fiber networks. This LGX module combines 5 ITU standard CWDM wavelengths with 1310nm and 1550nm wavelengths to allow the overlay of legacy 1310nm and 1550nm circuits or the next evolution of 100G circuits.

CWDM capacity solutions are passive and require no power, or configuration. CWDM filters are used to allow the combination (Multiplexing) and separation (Demultiplexing) of multiple wavelengths over single mode fiber and provide a high quality, low loss, fiber capacity solution.

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



PLO-L1CT-C7C1-LC



Technical Specifications				
Parameter	Unit		Specification	
Number of Channels	CH		5 CWDM, 1310nm, 1550nm	
Operating Wavelength	nm		1260 ~ 1620	
Channel Spacing	nm		20	
Passband: 1310 Channel	nm		1260- 1360	
Passband: 1550nm Channel	nm		1527- 1566	
Passband: 1471-1611 Channels	nm		ITU ± 6.5	
Insertion Loss Including Connectors			Demux	Mux
1310nm Loss, COM to 1310 Port	Max.	dB	1.5	1.5
1550nm Loss, COM to 1550 Port	Max.	dB	1.8	1.8
CWDM Channels 1471-1611nm	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	Max.	dB	0.5	
PDL	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-L1CT-C7C1-LC	LGX, 7 Channel, CWDM Mux-Demux, 1471-1491-1511, 1591-1611, 1310nm, 1550nm, 2% Monitor, LC-UPC
<p><i>Note: See PlugIn Optics LGX Mounting solutions below.</i></p>	

## LGX Mounting Solutions

### 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.