

5 CHANNEL CWDM MUX/DMX, +1310NM & 1550NM

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.





FEATURES

5 Channel CWDM +1310nm & 1550nm 7 to 1 Capacity Gain Configuration: Mux/Dmx 2% Monitor Port Form Factor: LGX

Temp Range: I-Temp

ENVIRONMENT

Central Office
Headend
Remote Site
Cabinet
Pedestal

CONFIGURATIONS

Point to Point Linear Chain Collapsed/Diverse Ring



TECHNICAL SPECIFICATIONS							
PARAMETER	UNIT		SPECIFICATION				
NUMBER OF CHANNELS	СН		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			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	22.3			
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				

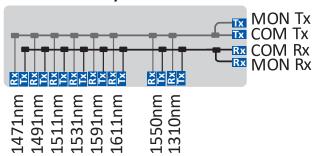
WWW.PLUGINOPTICS.COM Doc. No. 142-C7v2.1, Sept 2023



LOGICAL DIAGRAM

The logical diagram shows how the channels flow through the filter. In a Mux/Demux channel ports will terminate or originate from the COM fibers and only channels listed are accessible. This filter includes 1310nm & 1550nm wideband port that will filter channels between 1260nm & 1360nm or 1527-1566nm respectively to allow for the transport of legacy 1310nm & 1550nm channels or even 100Gbps channels using wavelengths in that range. This logical diagram shows a Mux/Demux filter with 5 CWDM channels, 1310nm & 1550nm wideband ports.

5 Channel CWDM
Plus 1310nm & 1550nm Wideband
Mux / Demux



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PART NUMBER DESCRIPTION

PLO-L1CT-C7C1-LC LGX, 7 CHANNEL, CWDM MUX-DEMUX, 1471-1491-1511, 1591-1611, 1310NM,

1550NM, 2% MONITOR, LC-UPC

NOTE: SEE PLUGIN OPTICS LGX MOUNTING CHASSIS BELOW.



LGX MOUNTING CHASSIS

OVERVIEW

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

LGX Mount, 2-Slot "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 Universal Magnet Mount can be magnet mounted to the steel walls or screwed directly into a wall board. This chassis will hold two LGX modules.

FEATURES:

- 2 LGX slots
- Magnet or Wall Mount



LGX Chassis, 1RU, 3-Slot "Universal 1RU Chassis" Part#: PLO-1RU-LMC-3LGX

Designed for 1RU rack deployments, for example Central Office, Head End, Data Center, Cabinet and MDU. The Universal 1RU Chassis 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.

FEATURES:

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



LGX Chassis, 3RU, 14-Slot "Universal 3RU Chassis" Part#: PLO-3RU-LMC-14LGX

Designed for 3RU deployments, for example Central Office, Head End and Data Center. The Universal 3RU Chassis 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.

FEATURES:

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

