

# Lightguide Distribution Center (LDC) DWDM Module, LGX-Compatible, 8 Channel, Starting ITU Within Channels 20-59

Corning offers a variety of DWDM modules compatible with the LDC family connector housings. Components are compliant to Telcordia requirements, including GR-1209, GR-1221, and others as appropriate to the specification. The modules are routed directly to the LDC family housing.



Part Number: DKXB31A082000ZZB5N

Features	Benefits
Accommodates standard connector types	Reduces inventory
Individual connector adapters	Enables easy connector access
Integrated fiber routing and bend-radius protection	Minimizes insertion loss

## Specifications

General Specifications	
Application	CATV environments, Carrier networks
Product Type	DWDM modules
Fiber Category	Single-mode (OS2)

## Mechanical Specifications

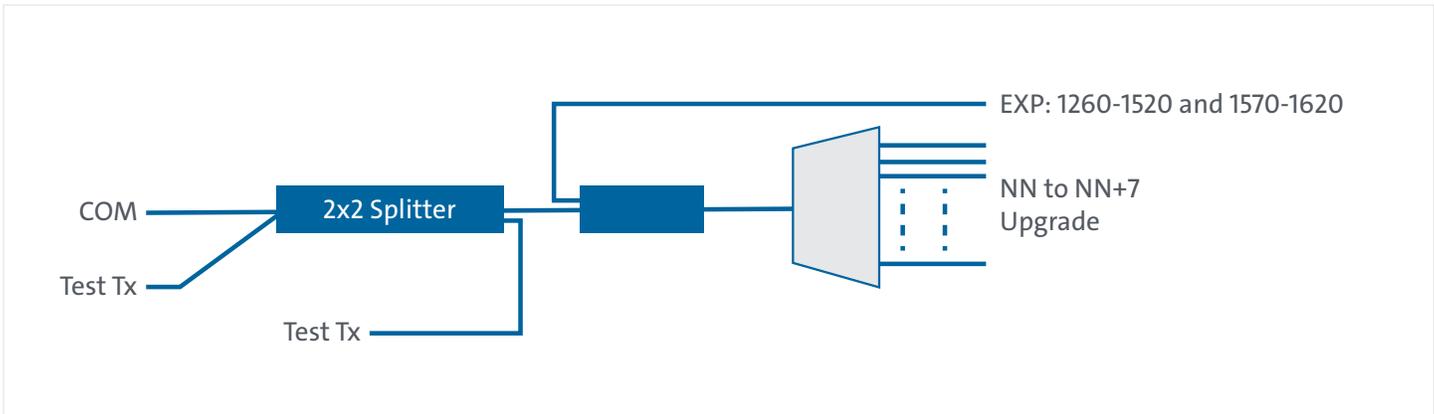
Connector Configuration	LC APC
Housing Color	Platinum
Housing Type	LDC
Package Dimensions	1U LGX, half depth
Tensile Load (N)	Minimum 5
Fiber Type	Corning® SMF-28e+® or equivalent
ITU Channels	8 channels between 20-59, Example: starting at 52-59

## Optical Performance Characteristics

Channel Spacing	100 GHz		
ITU Channels NN =	Starting ITU within Channels 20-59 For example, NN = 52, Channels 52-59		
Parameter	Minimum	Typical	Maximum
DWDM Passband Width (nm)	$\lambda_{ITU} \pm 0.125$		
Upgrade Port Wavelength (nm)	Unused channels within Ch20-59		
Express Port Wavelength (nm)	1260-1520 and 1570-1620		
DWDM Channel Insertion Loss (dB)			3.7
Upgrade Port Insertion Loss (dB)			3.4
Express Port Insertion Loss (dB)			2.0
DWDM Passband Ripple (dB)			0.5
DWDM Insertion Loss Uniformity (dB)			2.0
Test Point Insertion Loss (dB)			15.5
DWDM Adjacent Channel Isolation (dB)	30		
DWDM Nonadjacent Channel Isolation (dB)	45		
Upgrade Port Isolation (dB)	12		
Express Channel Isolation (dB)	12		
Return Loss (dB)	45		
DWDM Port Directivity (dB)	55		
Express and Upgrade Port Directivity (dB)	45		
PDL (dB)			0.30
PMD (ps)			0.25
Optical Power (mW)			300

## Environmental Specifications

Operating Temperature Range (°C)	-20		+65
Operating Humidity (% RH)	5		95
Storage Temperature (°C)	-40		+85



Optical Layout

## Ordering Information

Description	Part Number
DWDM, LGX, LC APC, 100 GHz, mux, 8 channel, ITU 20-27, express port, upgrade port, text TX port, test RX port	DKXB31A082000ZZB5N
DWDM, LGX, LC APC, 100 GHz, mux, 8 channel, ITU 28-35, express port, upgrade port, text TX port, test RX port	DKXB31A082800ZZB5N
DWDM, LGX, LC APC, 100 GHz, mux, 8 channel, ITU 36-43, express port, upgrade port, text TX port, test RX port	DKXB31A083600ZZB5N
DWDM, LGX, LC APC, 100 GHz, mux, 8 channel, ITU 44-51, express port, upgrade port, text TX port, test RX port	DKXB31A084400ZZB5N
DWDM, LGX, LC APC, 100 GHz, mux, 8 channel, ITU 52-59, express port, upgrade port, text TX port, test RX port	DKXB31A085200ZZB5N

## Shipping Information

Units Per Delivery
1/1



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