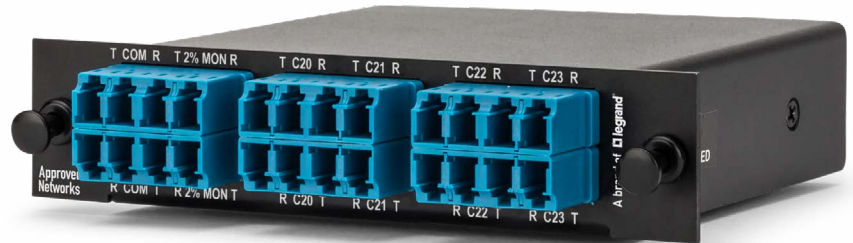
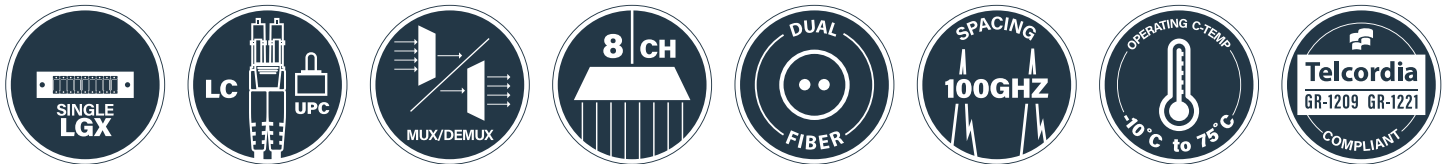


## Features:

- 8 + 1 Channel DWDM w/ 1310nm Wideband Port
- Channel Wavelengths: DWDM CH. 21 - CH. 28 + 1310nm
- Channel Spacing: 100GHz
- Maximum Optical Power: 300mW
- Connector Type - All Ports: LC/UPC
- Operating Temperature: -10 to 75°C
- Storage Temperature: -40 to 85°C



- Reliability: Telcordia GR-1209, GR-1221
- Dimensions: 100mm x 100mm x 28.5mm
- Faceplate: 130mm



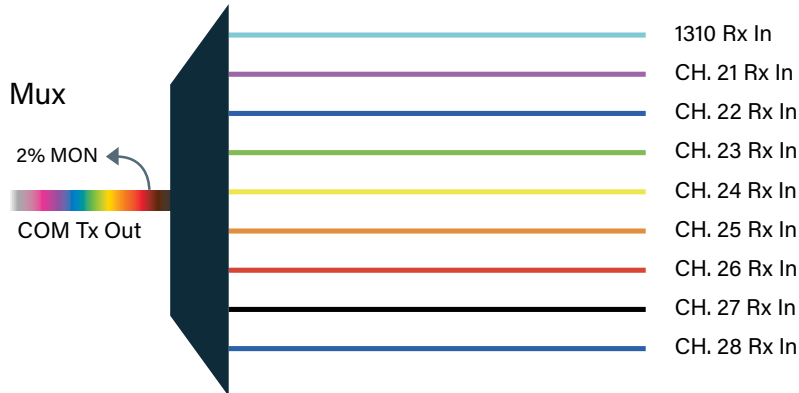
## 1. Optical Requirements

Parameter	Value
Passband, DWDM Channel Ports (Min.)	$\geq \text{ITU} \pm 0.11\text{nm}$
Passband, 1310nm Port	1260nm - 1360nm
Passband Ripple (Max.)	$\leq 0.5\text{dB}$
Isolation, Adjacent Channel - DWDM (Min.)	$\geq 30\text{dB}$
Isolation, Non-Adjacent Channel - DWDM (Min.)	$\geq 40\text{dB}$
Isolation, 1310nm Passband (Min.)	$\geq 30\text{dB}$
Return Loss - All Ports (Min.)	$\geq 45\text{dB}$
Directivity - Channel Ports (Min.)	$\geq 50\text{dB}$
Polarization Dependent Loss (Max.)	$\leq 0.2\text{dB}$
Polarization Mode Dispersion (Max.)	$\leq 0.2\text{ps}$

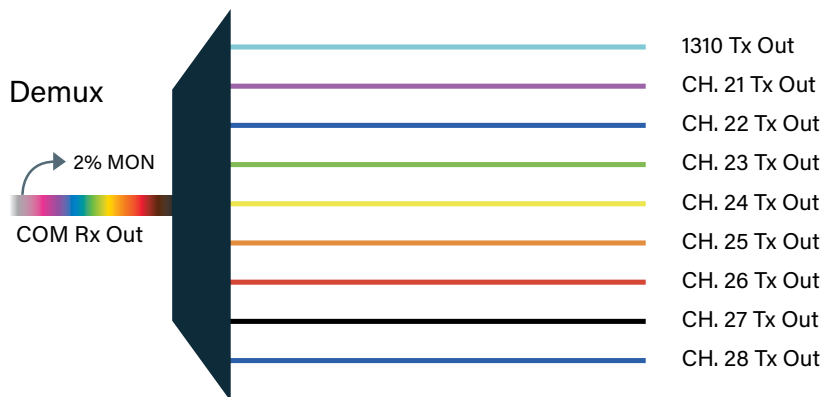
## 2. Insertion Loss

Parameter	Value
1310nm Port Insertion Loss (Max., Incl. Connectors)	$\leq 1.2\text{dB}$
DWDM Channel Insertion Loss (Max., Incl. Connectors)	$\leq 3.2\text{dB}$
MON Port Insertion Loss (Max., Incl. Connectors)	22.2dB/19.0dB

### 3. Network Diagram

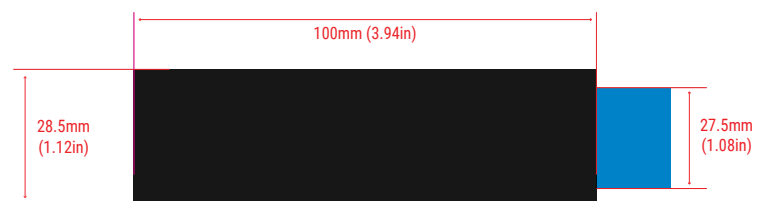
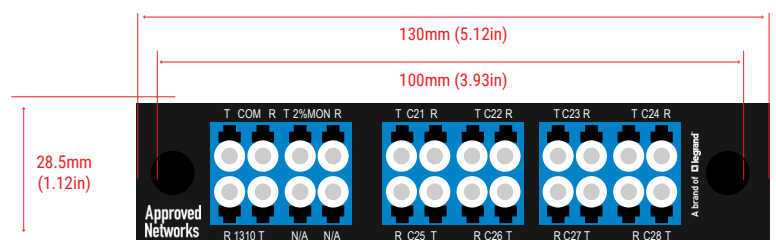
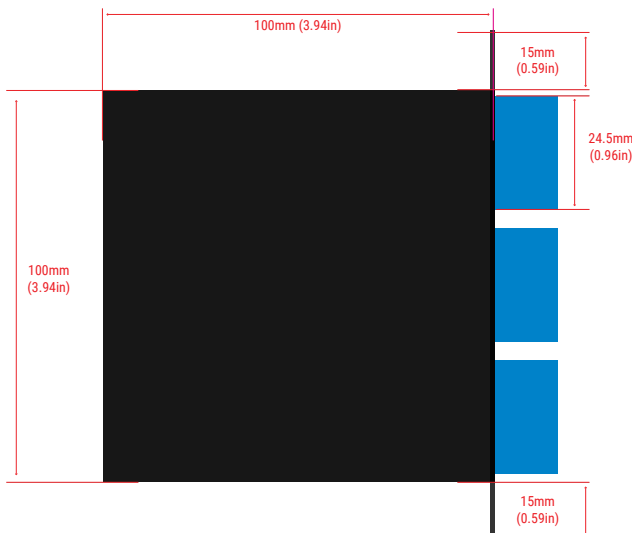


Channel	Typical	Max
1310	1.1	1.2
CH. 21	1.3	1.5
CH. 22	1.6	1.8
CH. 23	1.9	2.1
CH. 24	2.2	2.4
CH. 25	2.4	2.6
CH. 26	2.6	2.8
CH. 27	2.8	3
CH. 28	3	3.2



Channel	Typical	Max
1310	1.1	1.2
CH. 28	1.3	1.5
CH. 27	1.6	1.8
CH. 26	1.9	2.1
CH. 25	2.2	2.4
CH. 24	2.4	2.6
CH. 23	2.6	2.8
CH. 22	2.8	3
CH. 21	3	3.2

### 4. Mechanical Diagram



## 5. Ordering Information: Module

Part Number	Description
ZS-DWDM-MD3-100-8-L-8-0-21-L	DWDM M/D 100GHz 8+1CH, 1310, LC, No Skip, CH. 21 Start Mon, LGX Mount 1W

## 6. Ordering Information: Mounting Options

LGX Chassis



Part Number	Description	Dimensions	LGX Slots
ZS-LGX3R-14S-CHASSIS-1923	LGX 3RU Chassis For 14 LGX Modules And Fiber Mgmt. - 19 Or 23" Rack	Fits 19" Or 23" Rack x 3RU	14



Part Number	Description	Dimensions	LGX Slots
ZS-LGX1R-3S-CHASSIS-1923	LGX 1RU Chassis For 3 LGX Modules And Fiber Mgmt. - 19 Or 23" Rack	Fits 19" Or 23" Rack x 1RU	3

## LGX Faceplate



Part Number	Description	Dimensions	LGX Slots
LGX1R-FACEPLATE	1RU Faceplate 19" With 3 LGX Slots For Passives	Fits 19" Rack x 1RU	3

## Magnetic "C" Bracket



Part Number	Description	Dimensions	LGX Slots
LGX-2U2L	2RU Magnetic Bracket With 2 LGX Slots For Passives	5.28" x 3.94" x 2.44"	2

## 7. Contact Information

Tel: 800.590.9535

Web: <http://www.approvednetworks.com>