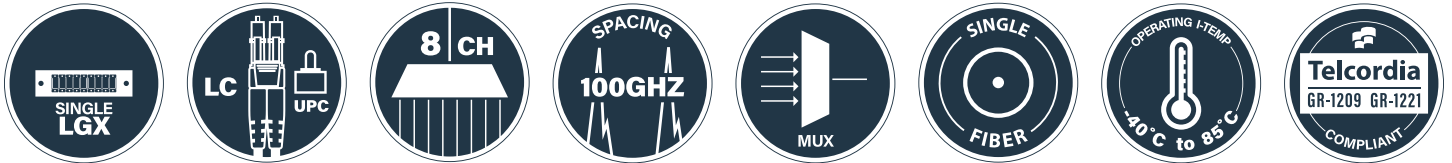


## Features:

- 8 Channel and 4 Service Single Fiber DWDM Mux + Express LGX
- Channel Wavelengths: DWDM CH. 21 - CH. 28 + Express
- Channel Spacing: 100GHz
- Reliability: Telcordia GR-1209, GR-1221
- Maximum Optical Power: 300mW
- Connector Type - All Ports: LC/UPC
- Operating Temperature: -40 to 85°C



- Storage Temperature: -40 to 85°C
- Dimensions: 100mm x 100mm x 28.5mm
- Faceplate: 130mm



## 1. Optical Requirements

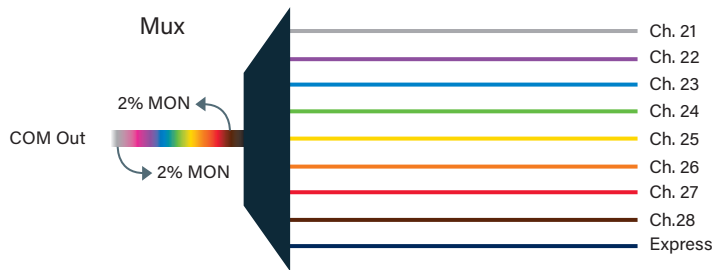
Parameter	Value
Passband, DWDM Channel Ports @ -0.5dB (Min.)	≥ ITU±25GHz
Passband, Express Port (Min., Minus Channel Wavelengths)	1250nm - 1400nm, 1650nm - 1675nm
Passband Ripple (Max.)	≤ 0.5dB
Isolation, Adjacent Channel (Min.)	≥ 30dB
Isolation, Non-Adjacent Channel (Min.)	≥ 40dB
Isolation, Express Channel (Min.)	≥ 12dB
Return Loss - All Ports (Min.)	≥ 45dB
Directivity - DWDM Ports (Min.)	≥ 50dB
Polarization Dependent Loss (Max.)	≤ 0.2dB
Polarization Mode Dispersion (Max.)	≤ 0.2ps

## 2. Insertion Loss

Parameter	Value
DWDM Channel Insertion Loss (Typ., Incl. Connectors)	≤ 2.6dB
DWDM Channel Insertion Loss (Max., Incl. Connectors)	≤ 2.8dB
Express Insertion Loss (Typ., Incl. Connectors)	≤ 2.3dB

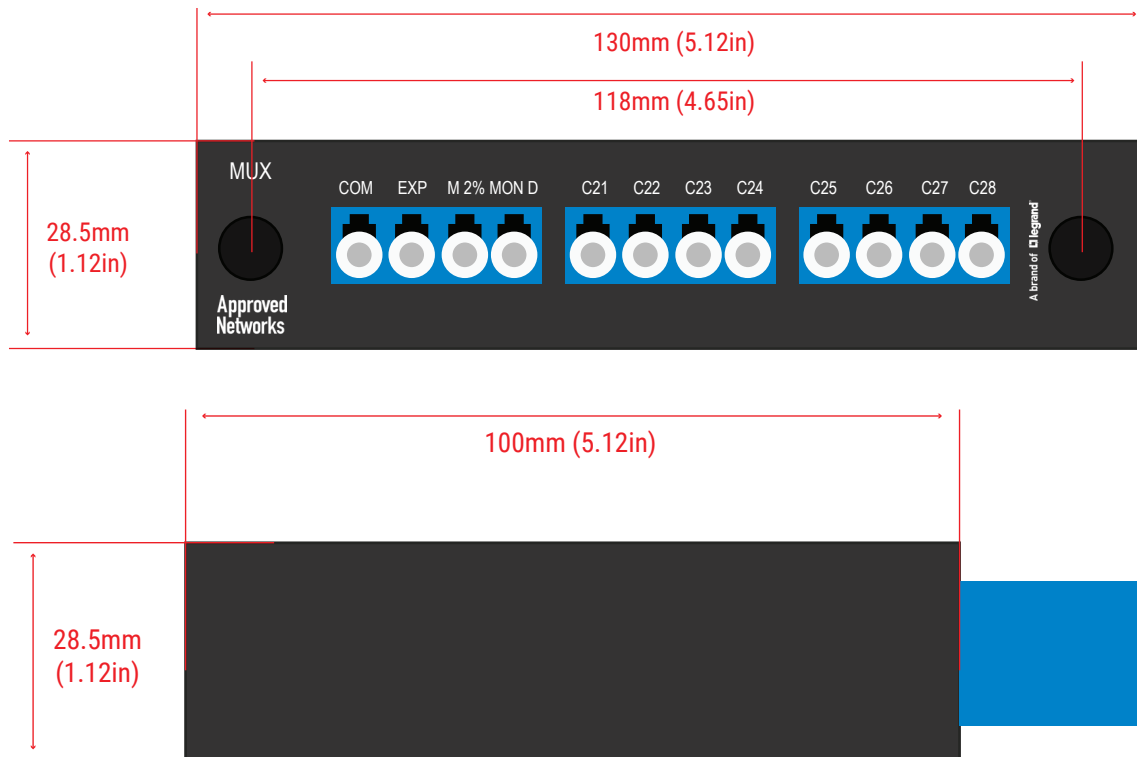
Express Insertion Loss (Max., Incl. Connectors)	≤ 2.5dB
MON Port Insertion Loss (Incl. Connectors)	21.8dB Mux/19.0dB Demux

### 3. Network Diagram



Channel	Typ. (dB)	Max. (dB)
Ch. 21	1.1	1.2
Ch. 22	1.3	1.5
Ch. 23	1.6	1.8
Ch. 24	1.8	2.0
Ch. 25	2.0	2.2
Ch. 26	2.2	2.4
Ch. 27	2.4	2.6
Ch. 28	2.6	2.8
EXP	2.3	2.5

### 4. Mechanical Diagram

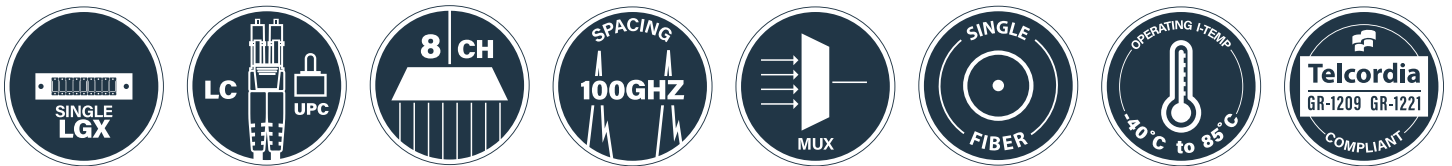


## Features:

- 8 Channel and 4 Service Single Fiber DWDM Demux + Express LGX
- Channel Wavelengths: DWDM CH. 21 - CH. 28 + Express
- Channel Spacing: 100GHz
- Reliability: Telcordia GR-1209, GR-1221
- Maximum Optical Power: 300mW
- Connector Type - All Ports: LC/UPC
- Operating Temperature: -40 to 85°C



- Storage Temperature: -40 to 85°C
- Dimensions: 100mm x 100mm x 28.5mm
- Faceplate: 130mm



## 1. Optical Requirements

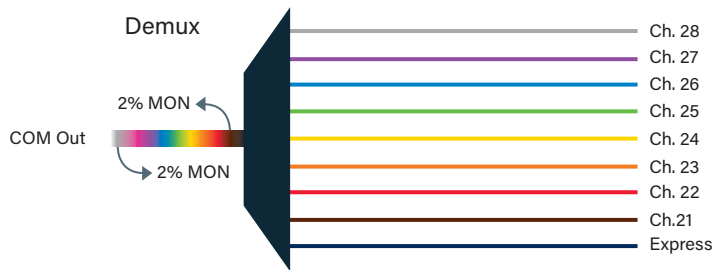
Parameter	Value
Passband, DWDM Channel Ports @ -0.5dB (Min.)	≥ ITU±25GHz
Passband, Express Port (Min., Minus Channel Wavelengths)	1250nm - 1400nm, 1650nm - 1675nm
Passband Ripple (Max.)	≤ 0.5dB
Isolation, Adjacent Channel (Min.)	≥ 30dB
Isolation, Non-Adjacent Channel (Min.)	≥ 40dB
Isolation, Express Channel (Min.)	≥ 12dB
Return Loss - All Ports (Min.)	≥ 45dB
Directivity - DWDM Ports (Min.)	≥ 50dB
Polarization Dependent Loss (Max.)	≤ 0.2dB
Polarization Mode Dispersion (Max.)	≤ 0.2ps

## 2. Insertion Loss

Parameter	Value
DWDM Channel Insertion Loss (Typ., Incl. Connectors)	≤ 2.6dB
DWDM Channel Insertion Loss (Max., Incl. Connectors)	≤ 2.8dB
Express Insertion Loss (Typ., Incl. Connectors)	≤ 2.3dB

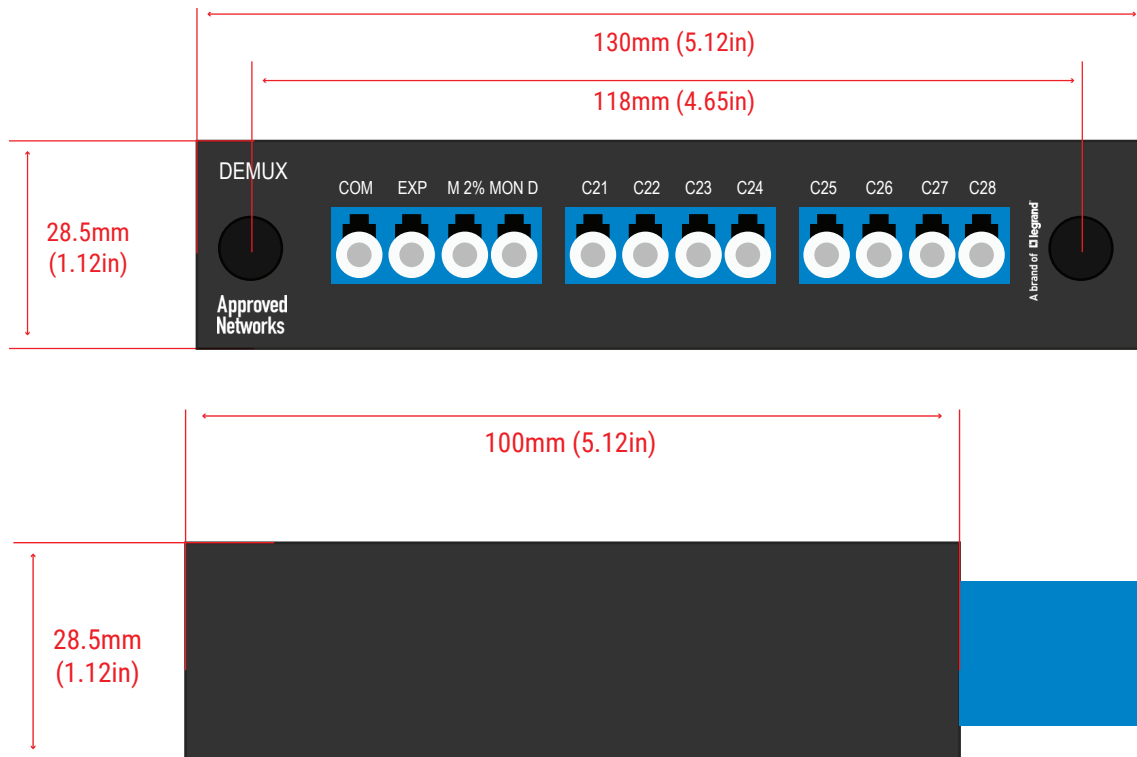
Express Insertion Loss (Max., Incl. Connectors)	≤ 2.5dB
MON Port Insertion Loss (Incl. Connectors)	21.8dB Mux/19.0dB Demux

### 3. Network Diagram



Channel	Typ. (dB)	Max. (dB)
Ch. 21	2.6	2.8
Ch. 22	2.4	2.6
Ch. 23	2.2	2.4
Ch. 24	2.0	2.2
Ch. 25	1.8	2.0
Ch. 26	1.6	1.8
Ch. 27	1.3	1.5
Ch. 28	1.1	1.2
EXP	2.3	2.5

### 4. Mechanical Diagram



## 5. Ordering Information: Module

Root SKU	Part Number	Description
D4T40LC21080090	ZS-DWDM-SFB-100-8-L-8-0-21-L	8 Ch. / 4 Svc. Single Fiber Mux, CH. 21 Start + EXP, LGX
D5T08LC210800B0	ZS-DWDM-SFD-100-8-L-8-0-21-L	8 Ch. / 4 Svc. Single Fiber Demux, CH. 21 Start + EXP, LGX

## 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>