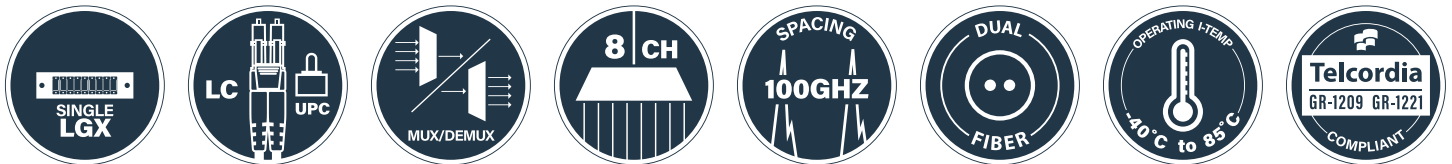


## Features:

- 8 Channel Dual Fiber DWDM Mux/Demux + Express for 8 Skip 1 Channel Plan
- Channel Wavelengths: DWDM CH. xx - CH. xx+7 + 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

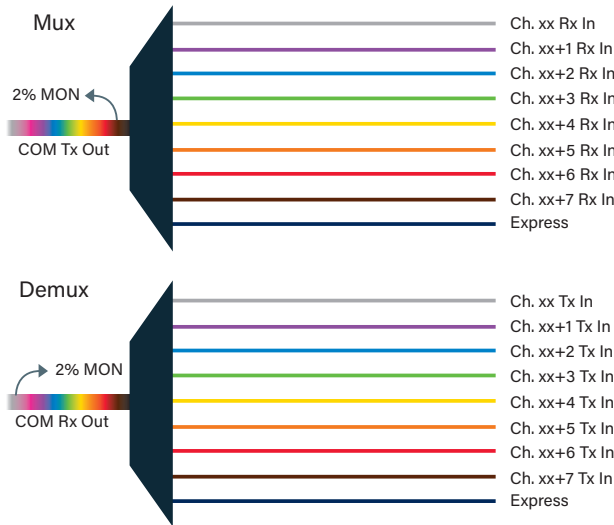
Parameter	Value
Passband, DWDM Channel Ports (Min.)	$\geq \text{ITU} \pm 0.11\text{nm}$
Passband, Express Port (Min.)	1500nm - 1600nm (Excludes: CH. xx - CH. xx+7)
Passband Ripple (Max.)	$\leq 0.5\text{dB}$
Isolation, Adjacent Channel - DWDM (Min.)	$\geq 30\text{dB}$
Isolation, Non-Adjacent Channel - DWDM (Min.)	$\geq 40\text{dB}$
Isolation, Express Channel (Min.)	$\geq 12\text{dB}$
Return Loss - All Ports (Min., Including Connectors)	$\geq 45\text{dB}$
Directivity - DWDM 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
DWDM Channel Insertion Loss (Max., Incl. Connectors)	$\leq 2.8\text{dB}$
Mux and Demux Paired Insertion Loss (Max., Incl. Connectors)	$\leq 4.2\text{dB}$

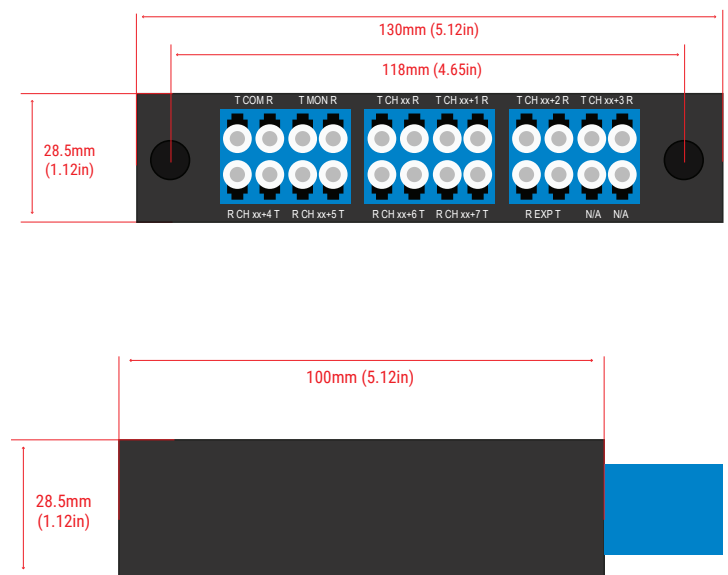
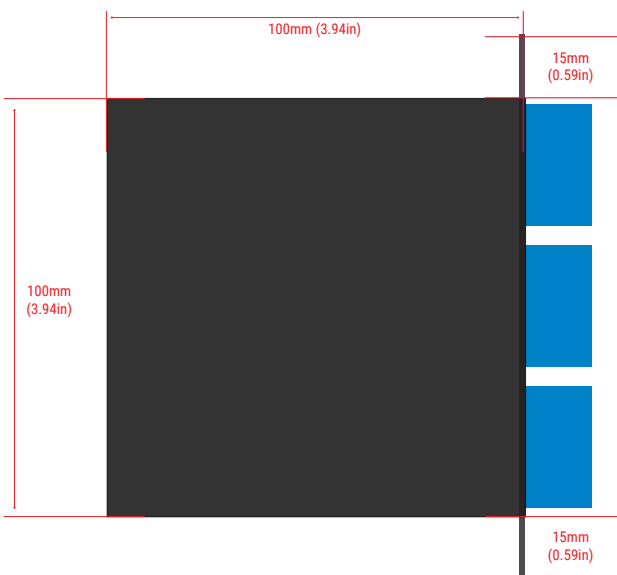
Express Insertion Loss (Max., Incl. Connectors)	≤ 2.5dB
Mux and Demux Express Port Insertion Loss (Max., Incl. Connectors)	≤ 5.0dB
MON Port Insertion Loss (Incl. Connectors)	21.8dB Mux/19.0dB Demux

### 3. Network Diagram



Channel	Mux		Demux	
	Typ. (dB)	Max. (dB)	Typ. (dB)	Max. (dB)
Ch. xx	1.1	1.2	2.6	2.8
Ch. xx+1	1.3	1.5	2.4	2.6
Ch. xx+2	1.6	1.8	2.2	2.4
Ch. xx+3	1.8	2.0	2.0	2.2
Ch. xx+4	2.0	2.2	1.8	2.0
Ch. xx+5	2.2	2.4	1.6	1.8
Ch. xx+6	2.4	2.6	1.3	1.5
Ch. xx+7	2.6	2.8	1.1	1.2
EXP	2.3	2.5	2.3	2.5

### 4. Mechanical Diagram



## 5. Ordering Information: Modules

Part Number	Description
ZS-DWDM-M/D-100-8-L-8-1-16-L	DWDM 100GHz Spacing, Mux/Demux Pair (Dual Fiber), TFF Thin Film Filter (I-Temp), 8 Channel, LC/UPC, Channel 16 Start, Single Module, LGX, Skip 1, Standard EXP, MON 2% M/D
ZS-DWDM-M/D-100-8-L-8-1-25-L	DWDM 100GHz Spacing, Mux/Demux Pair (Dual Fiber), TFF Thin Film Filter (I-Temp), 8 Channel, LC/UPC, Channel 25 Start, Single Module, LGX, Skip 1, Standard EXP, MON 2% M/D
ZS-DWDM-M/D-100-8-L-8-1-34-L	DWDM 100GHz Spacing, Mux/Demux Pair (Dual Fiber), TFF Thin Film Filter (I-Temp), 8 Channel, LC/UPC, Channel 34 Start, Single Module, LGX, Skip 1, Standard EXP, MON 2% M/D
ZS-DWDM-M/D-100-8-L-8-1-43-L	DWDM 100GHz Spacing, Mux/Demux Pair (Dual Fiber), TFF Thin Film Filter (I-Temp), 8 Channel, LC/UPC, Channel 43 Start, Single Module, LGX, Skip 1, Standard EXP, MON 2% M/D
ZS-DWDM-M/D-100-8-L-8-1-52-L	DWDM 100GHz Spacing, Mux/Demux Pair (Dual Fiber), TFF Thin Film Filter (I-Temp), 8 Channel, LC/UPC, Channel 52 Start, Single Module, LGX, Skip 1, Standard EXP, MON 2% M/D

## 6. Ordering Information: Mounting Options

LGX Chassis

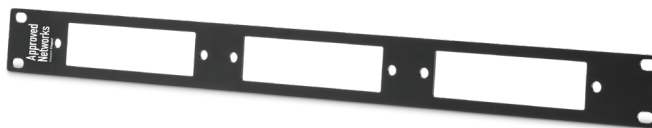


Part Number	Description	Dimensions	LGX Slots
ZS-LGX3R-14S-CHASSIS-1923	LGX 3RU Chassis For 14 LGX Modules And Fiber Mgmt. - 19 Or 23" Rack	Fits 19" Or 23" Rack x 3RU	14



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>