

Features:

- 8 Channel Dual Fiber DWDM Mux/Demux
- Channel Wavelengths: DWDM CH. 16–23, 25–32, 34–41, 43–50, or 52–59
- Channel Spacing: 100GHz
- Maximum Optical Power: 300mW
- Connector Type - All Ports: LC/UPC
- Reliability: Telcordia GR-1209, GR-1221
- Operating Temperature: -40 to 85°C
- Storage Temperature: -40 to 85°C
- Dimensions: 100mm x 100mm x 28.5mm
- Faceplate: 130mm

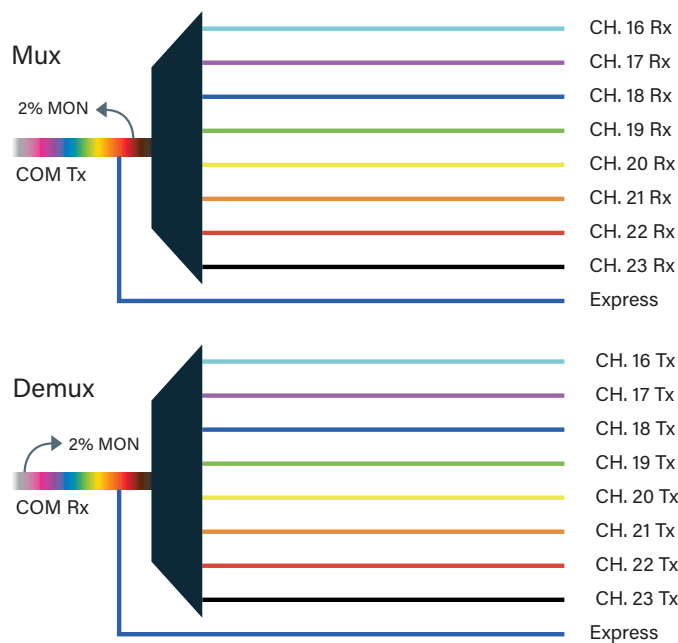


1. Technical Specifications

Parameter	Value
DWDM Channel Insertion Loss (dB)	≤ 3.4
Express Port Insertion Loss (dB)	≤ 0.75
MON Port Insertion Loss (mux/demux, dB)	$\leq 22.4 / 19.0$
Passband Ripple (dB)	≤ 0.5
Adjacent Channel Isolation between DWDM Channels (dB)	≥ 30
Non-Adjacent Channel Isolation Between DWDM Channels (dB)	≥ 40
Express Port Isolation (dB)	≥ 12
Polarization Dependent Loss (dB)	≤ 0.2
Directivity (dB)	≥ 50
Return Loss (dB)	≥ 45
Polarization Mode Dispersion (ps)	≤ 0.2
Fiber Type	SMF-28e+ 900 μm
Max Power Handling (mW)	300

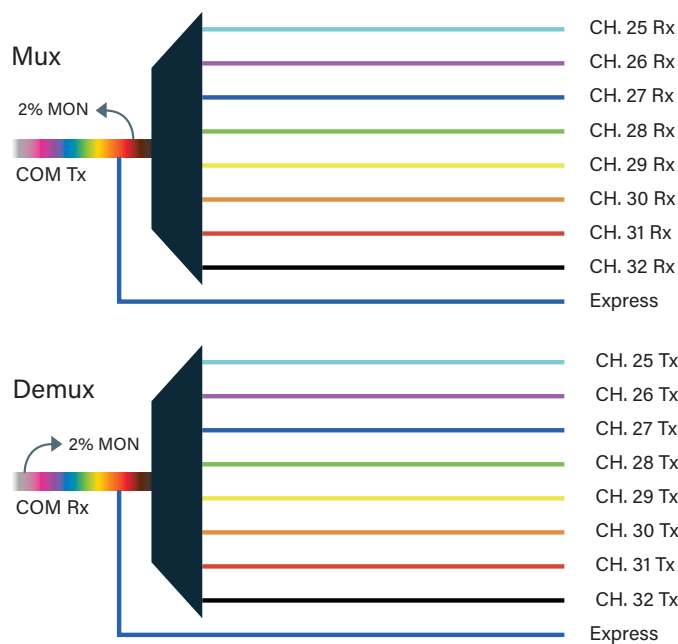
2. Network Diagrams

ZS-DWDM-MDB-100-8-L-8-1-16-L



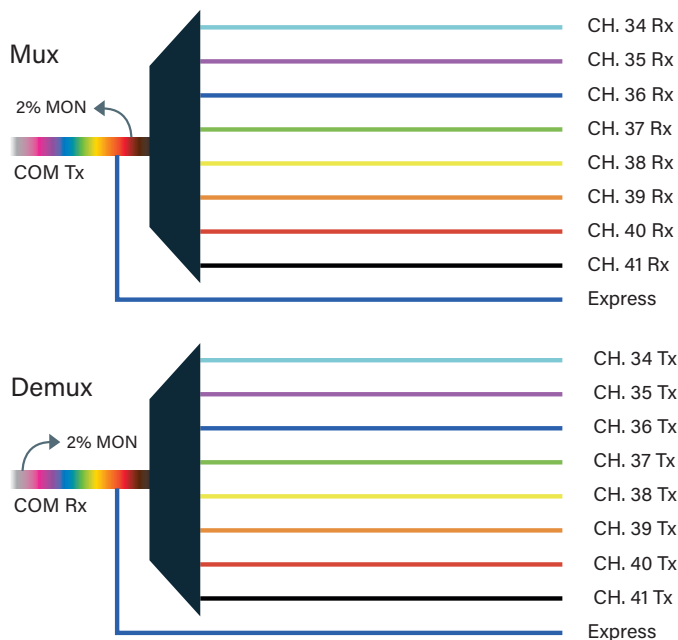
Channel	Typ.		Max.	
	Mux (dB)	Dmx (dB)	Mux (dB)	Dmx (dB)
ITU ch. 16	1.6	3.2	1.8	3.4
ITU ch. 17	1.9	3.0	2.1	3.2
ITU ch. 18	2.2	2.8	2.4	3.0
ITU ch. 19	2.4	2.6	2.6	2.8
ITU ch. 20	2.6	2.4	2.8	2.6
ITU ch. 21	2.8	2.2	3.0	2.4
ITU ch. 22	3.0	1.9	3.2	2.1
ITU ch. 23	3.2	1.6	3.4	1.8
EXP	0.65		0.75	

ZS-DWDM-MDB-100-8-L-8-1-25-L



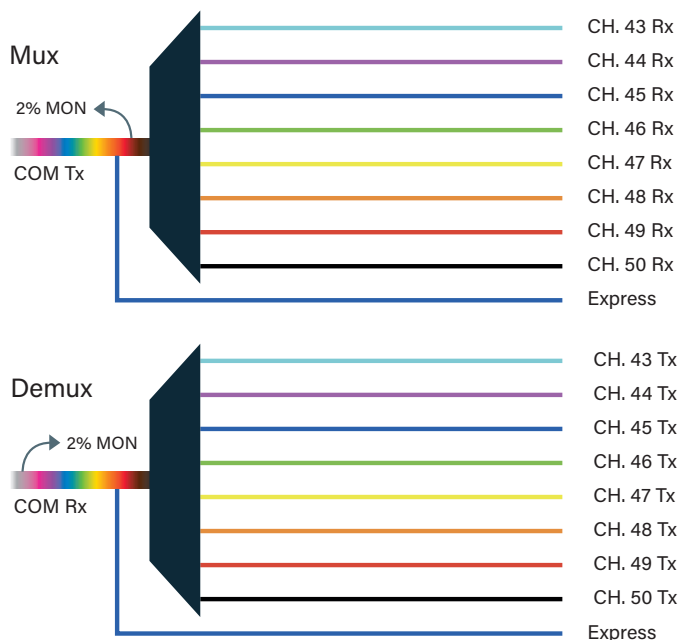
Channel	Typ.		Max.	
	Mux (dB)	Dmx (dB)	Mux (dB)	Dmx (dB)
ITU ch. 25	1.6	3.2	1.8	3.4
ITU ch. 26	1.9	3.0	2.1	3.2
ITU ch. 27	2.2	2.8	2.4	3.0
ITU ch. 28	2.4	2.6	2.6	2.8
ITU ch. 29	2.6	2.4	2.8	2.6
ITU ch. 30	2.8	2.2	3.0	2.4
ITU ch. 31	3.0	1.9	3.2	2.1
ITU ch. 32	3.2	1.6	3.4	1.8
EXP	0.65		0.75	

ZS-DWDM-MDB-100-8-L-8-1-34-L



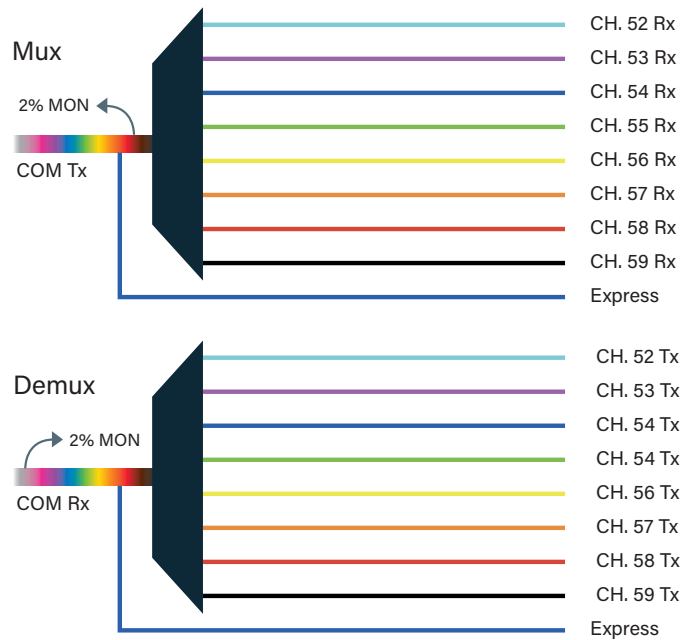
Channel	Typ.		Max.	
	Mux (dB)	Dmx (dB)	Mux (dB)	Dmx (dB)
ITU ch. 34	1.6	3.2	1.8	3.4
ITU ch. 35	1.9	3.0	2.1	3.2
ITU ch. 36	2.2	2.8	2.4	3.0
ITU ch. 37	2.4	2.6	2.6	2.8
ITU ch. 38	2.6	2.4	2.8	2.6
ITU ch. 39	2.8	2.2	3.0	2.4
ITU ch. 40	3.0	1.9	3.2	2.1
ITU ch. 41	3.2	1.6	3.4	1.8
EXP	0.65		0.75	

ZS-DWDM-MDB-100-8-L-8-1-43-L



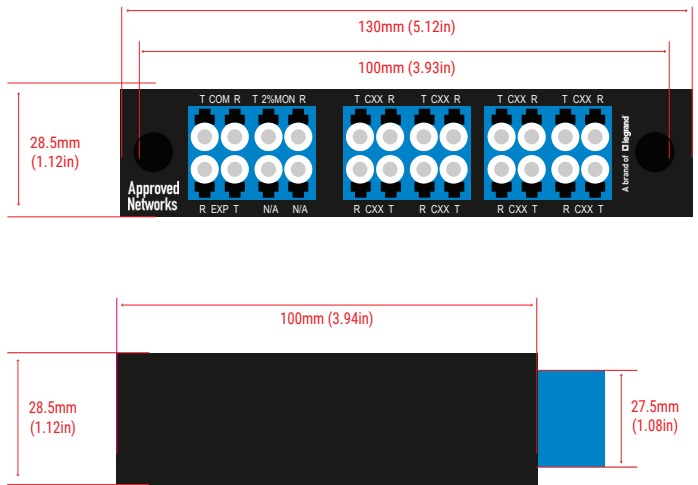
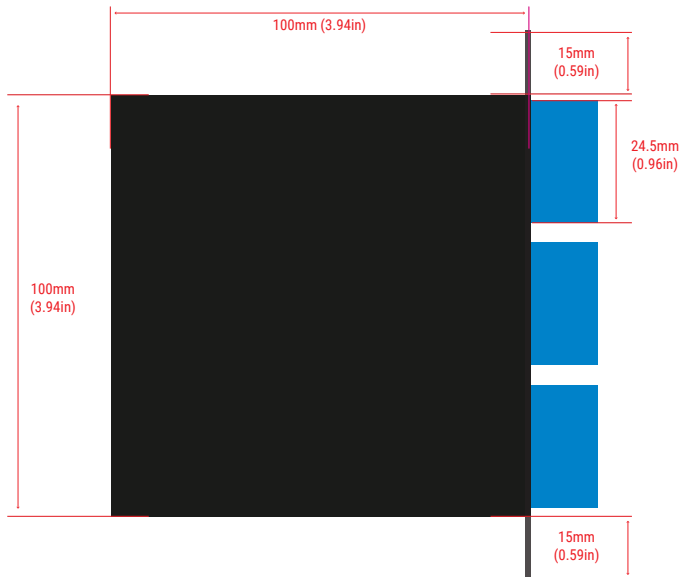
Channel	Typ.		Max.	
	Mux (dB)	Dmx (dB)	Mux (dB)	Dmx (dB)
ITU ch. 43	1.6	3.2	1.8	3.4
ITU ch. 44	1.9	3.0	2.1	3.2
ITU ch. 45	2.2	2.8	2.4	3.0
ITU ch. 46	2.4	2.6	2.6	2.8
ITU ch. 47	2.6	2.4	2.8	2.6
ITU ch. 48	2.8	2.2	3.0	2.4
ITU ch. 49	3.0	1.9	3.2	2.1
ITU ch. 50	3.2	1.6	3.4	1.8
EXP	0.65		0.75	

ZS-DWDM-MDB-100-8-L-8-1-52-L



Channel	Typ.		Max.	
	Mux (dB)	Dmx (dB)	Mux (dB)	Dmx (dB)
ITU ch. 52	1.6	3.2	1.8	3.4
ITU ch. 53	1.9	3.0	2.1	3.2
ITU ch. 54	2.2	2.8	2.4	3.0
ITU ch. 55	2.4	2.6	2.6	2.8
ITU ch. 56	2.6	2.4	2.8	2.6
ITU ch. 57	2.8	2.2	3.0	2.4
ITU ch. 58	3.0	1.9	3.2	2.1
ITU ch. 59	3.2	1.6	3.4	1.8
EXP	0.65		0.75	

3. Mechanical Diagram



4. Ordering Information: Modules

Part Number	Description
ZS-DWDM-MDB-100-8-L-8-1-16-L	DWDM 100GHz spacing, Mux/Demux Pair (Dual Fiber), TFF Thin Film Filter (I-Temp), 8 Channel, L (LC/UPC), Channel 16 Start, Single module, LGX, Skip 0, Bandpass EXP, MON 2% M/D
ZS-DWDM-MDB-100-8-L-8-1-25-L	DWDM 100GHz spacing, Mux/Demux Pair (Dual Fiber), TFF Thin Film Filter (I-Temp), 8 Channel, L (LC/UPC), Channel 25 Start, Single module, LGX, Skip 0, Bandpass EXP, MON 2% M/D
ZS-DWDM-MDB-100-8-L-8-1-34-L	DWDM 100GHz spacing, Mux/Demux Pair (Dual Fiber), TFF Thin Film Filter (I-Temp), 8 Channel, L (LC/UPC), Channel 34 Start, Single module, LGX, Skip 0, Bandpass EXP, MON 2% M/D
ZS-DWDM-MDB-100-8-L-8-1-43-L	DWDM 100GHz spacing, Mux/Demux Pair (Dual Fiber), TFF Thin Film Filter (I-Temp), 8 Channel, L (LC/UPC), Channel 43 Start, Single module, LGX, Skip 0, Bandpass EXP, MON 2% M/D
ZS-DWDM-MDB-100-8-L-8-1-52-L	DWDM 100GHz spacing, Mux/Demux Pair (Dual Fiber), TFF Thin Film Filter (I-Temp), 8 Channel, L (LC/UPC), Channel 52 Start, Single module, LGX, Skip 0, Bandpass EXP, MON 2% M/D

5. Ordering Information: Mounting Options

LGX Chassis

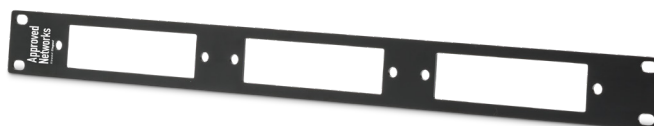


Part Number	Description	Dimensions	LGX Slots
ZS-LGX3R-14S-CHASSIS-1923	LGX 3RU Chassis For 14 LGX Modules And Fiber Mgmt. - 19 Or 23 Rack	Fits 19 Or 23 Rack x 3RU	14



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

6. Contact Information

Tel: 800.590.9535

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