

Optical Passives (ISP)

NP35M08, NP35D08 **DWDM Mux and Demux Modules** 8 Channels on 100 GHz-spaced ITU Grid (with -20 dB Line Monitoring Taps and Cascade Ports)

FEATURES

- 8-channel optical mux and demux modules
- · Channels spaced on standard 100 GHz DWDM ITU grid
- · Flat-top passband
- · High optical isolation
- · Supports both forward and return path transmission of analog and digital signals
- Mux and demux pair optimized for minimum combined insertion loss across all channels
- Industry's highest packaging density (up to 32 modules per chassis)
- · Occupies one half-depth slot
- Telcordia GR-1209 and GR-1221 qualified
- LGX chassis-compatible
- Replaces OP35M8 and OP35D8

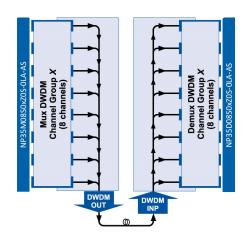


PRODUCT OVERVIEW

The ARRIS NP35M08 and NP35D08 Series 8-channel DWDM multiplexers and demultiplexers facilitate DWDM architectures. DWDM technology can dramatically increase network capacity without requiring additional fiber be deployed for super-trunking or narrowcasting applications. ARRIS supports DWDM architectures with a variety of products having 100 GHz center frequency spacing on the standard DWDM ITU Grid (ITU-T G.694.1) for 40 channels from Channel 20 to Channel 62. In many of ARRIS's products, these channels are logically partitioned into groups of 4, 8, or 16 channels (with letters used to designate channel groups). This concept is employed in the NP35M08 and NP35D08 series of 8-channel mux and demux modules.

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SPECIFICATIONS			
Characteristics	Specification		
Physical	эрсэтанэн		
Dimensions	6.5" D x 5.3" H x 1.0" W (3RU) (16.5 cm x 13.5 cm x 2.5 cm)		
Weight	1.2 lbs (0.5 kg)		
Environmental	(0)		
Operating Temperature Range	-20° to +65°C (-4° to +149°F)		
Storage Temperature Range	-40° to +85°C (-40° to +185°F)		
Humidity	5% to 95% non-condensing		
Optical (all models)		-	
Return loss, min (dB)	45		
Polarization dependent loss, max (typ) (dB)	0.2	0.2	
Ripple within passband, max (dB)	0.2 for NP35D08S0F	0.2 for NP35D08S0F13-0LE-AL; 0.5 for all other model types	
Channel spacing (GHz)	100		
Wavelength passthrough (nm)	1423.5–1617		
Insertion losses, max ¹ (dB)	Mux Module	Demux Module	
(==)	NP35M08	NP35D08	
Ch yy INP to DWDM OUT	2.6	N/A	
DWDM INP to Ch yy OUT	N/A	2.6	
Paired insertion loss ²	3.7	3.7	
DWDM IN to COM	2.3	N/A	
COM to DWDM OUT	N/A	2.3	
Uniformity, max ¹ (dB)			
Module	2.2	2.2	
Paired	1.2	1.2	
Passband @ 0.5 dB (nm)	± 0.125	± 0.125	
Directivity, min (dB)	55	N/A	
Isolation, adjacent channel, min (dB)	N/A	30	
Isolation, non-adjacent channel, min (dB)	N/A	45	
Power handling, any input port, max (dBm)	21.8	21.8	
Optical Interface			
Optical connectors	SC/APC or LC/APC (See <i>Ordering Information</i> for more details.)		
Model NP35M08S0xZ0S-0LA-AS	 Ch yy INP (8 channel add inputs for Channel Group x) DWDM OUT (output to fiber network) 		
Model NP35M08S0xA1S-0LA-AS	 DWDM INP (input from previous mux) Ch yy INP (8 channel add inputs for Channel Group x) DWDM OUT (output to fiber network) Bidirectional TP –20 dB (1% tap, test point from DWDM OUT) 		
Model NP35D08S0xZ0S-0LA-AS	 DWDM INP (input from fiber network) Ch yy (8 channel drop outputs for Channel Group x) 		
Model NP35D08S0xA1S-0LA-AS and NP35D08S0FA13-0LE-AL and NP35M08S0FA13-0LE-AL	 DWDM INP (input from fiber network) Ch yy INP (8 channel add inputs for Channel Group x) DWDM OUT (output to next demux) Bidirectional TP –20 dB (1% tap, test point from DWDM OUT) 		
NOTES:			

NOTES:

- 2. Paired insertion loss when combined with 8-ch demux module from Ch yy INP to Ch yy OUT, and vice-versa

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5 0 8 S 0 0 * = Filter grade [S = for base-band digital and externally modulated applications (unavailable with NP35D08S0F and NP35M08S0F); 3 = for all-QAM applications (available only with NP35D08S0F and NP35M08S0F)]

Channel Group	ITU Channel #	Wavelength (nm)	Optical frequency (THz)
F	Channel # 21	1560.606	192.1
	Channel # 28	1554.940	192.8
	Channel # 33	1550.918	193.3
	Channel # 39	1546.119	193.9
	Channel # 44	1542.142	194.4
	Channel # 52	1535.822	195.2
	Channel # 57	1531.898	195.7
	Channel # 62	1527.990	196.2
к	Channel # 20	1561.419	192.0
	Channel # 21	1560.606	192.1
	Channel # 22	1559.794	192.2
	Channel # 23	1558.983	192.3
	Channel # 24	1558.173	192.4
	Channel # 25	1557.363	192.5
	Channel # 26	1556.555	192.6
	Channel # 27	1555.747	192.7
м	Channel # 28	1554.940	192.8
	Channel # 29	1554.134	192.9
	Channel # 30	1553.329	193.0
	Channel # 31	1552.524	193.1
	Channel # 32	1551.721	193.2
	Channel # 33	1550.918	193.3
	Channel # 34	1550.116	193.4
	Channel # 35	1549.315	193.5

Channel Group	ITU Channel #	Wavelength (nm)	Optical frequency (THz)
P	Channel # 36	1548.515	193.6
	Channel # 37	1547.715	193.7
	Channel # 38	1546.917	193.8
	Channel # 39	1546.119	193.9
	Channel # 40	1545.322	194.0
	Channel # 41	1544.526	194.1
	Channel # 42	1543.730	194.2
	Channel # 43	1542.936	194.3
s	Channel # 44	1542.142	194.4
	Channel # 45	1541.349	194.5
	Channel # 46	1540.557	194.6
	Channel # 47	1539.766	194.7
	Channel # 48	1538.976	194.8
	Channel # 49	1538.186	194.9
	Channel # 50	1537.397	195.0
	Channel # 51	1536.609	195.1
U	Channel # 52	1535.822	195.2
	Channel # 53	1535.036	195.3
	Channel # 54	1534.250	195.4
	Channel # 55	1533.465	195.5
	Channel # 56	1532.681	195.6
	Channel # 57	1531.898	195.7
	Channel # 58	1531.116	195.8
	Channel # 59	1530.334	195.9

RELATED PRODUCTS	
CH3000 Chassis	LGX Chassis
Optical Transmitters	PF3000

Customer Care

Contact Customer Care for product information and sales:

- United States: 866-36-ARRIS
- International: +1-678-473-5656

Note: Specifications are subject to change without notice.

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ISP-NP35M08/D8x

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