

Optical Passives (ISP)

DP34M08, DP34D08 8-channel ISP CWDM Mux/Demux

FEATURES

- 8-channel optical multiplexer and demultiplexer modules
- LGX chassis-compatible for ISP inside plant controlled indoor environments
- · Single (1-slot) or dual (1-slot) module package options
- Wide operating passband on CWDM ITU grid (20 nm spacing)
- Type A: Skip 1551/1571 nm
- Type B: Skip 1431/1451 nm
- Type C: Skip 1531/1551 nm
- EXP express port for future services expansion via DWDM
- Separate TP -20 dB line monitoring taps for Tx and Rx signal paths
- LC/APC or LC/UPC optical connectors
- Compatible with "B-Series" and "C-Series" DP94M08/D08 OSP passives





PRODUCT OVERVIEW

ARRIS DP34M08 and DP34D08 eight-channel CWDM optical mux and demux modules are intended for applications in controlled indoor environments.

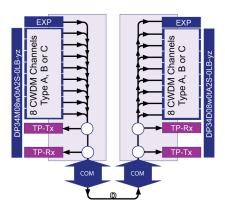
DP34M08 and DP34D08 are designed to multiplex 8 of 10 CWDM ITU-grid optical wavelengths, with individual wavelengths ranging from 1430 to 1610 nm, and 20 nm spacing between channels. Two separate -20 dB TP test ports monitor Tx path and Rx path signals.

They also have an EXP express port for future deployment of optical filters to accommodate the addition of DWDM ITU wavelengths for commercial services expansion into the "skipped" spectrum. There are three options for the 2 of 10 CWDM wavelengths which are "skipped": Type A (skip 1551/1571 nm); Type B (skip 1431/1451 nm), and; Type C (skip 1531/1551 nm).

Optical Passives-DP3M08/D08



These ISP headend modules are compatible with industry-standard LGX chassis. They are available in Single mux/demux and Dual mux/demux module packages to facilitate single fiber and dual fiber deployments.



SPECIFICATIONS		
Characteristics	Specification	
Physical		
Dimensions	6.5" D x 5.1" H x 1.0" W (16.5 cm x 13 cm x 2.6 cm)	
Weight	1.5 lbs (0.7 kg)	
Environmental		
Operating temperature range (indoor)	-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 Interface		
Optical ports (MUX/DEMUX Input/Output)	 xxxx: xxxx: 8 CWDM channel I/O ports t = A; 1431, 1451, 1471, 1491, 1511, 1531, 1591, 1611 nm t = B; 1471, 1491, 1511, 1531, 1551, 1571, 1591, 1611 nm t = C; 1431, 1451, 1471, 1491, 1511, 1571, 1591, 1611 nm COM: Output/input to/from fiber network EXP: Express or bypass channel I/O from previous MUX/DEMUX TP Tx: Unidirectional -20 dB tap off COM from xxxx channels TP Rx: Unidirectional -20 dB tap off COM from fiber network 	
Optical connectors	LC/APC or LC/UPC options	
Optical		
Channel Spacing	20 nm	
Channel Passband	 COM to xxxx: Center wavelength +/- 6.5 nm t = A; 1431, 1451, 1471, 1491, 1511, 1531, 1591, 1611 nm t = B; 1471, 1491, 1511, 1531, 1551, 1571, 1591, 1611 nm t = C; 1431, 1451, 1471, 1491, 1511, 1571, 1591, 1611 nm COM to EXP: from 1260-1625 nm, except Type A, B or C add/drop channel passbands, as applicable t = A; 1260-1421 nm; 1541-1581 nm; 1621-1635 nm t = B; 1260-1461 nm; 1621-1635 nm t = C; 1260-1421 nm; 1521-1561 nm; 1621-1635 nm 	
Insertion Loss, max: (including connectors)	 COM to xxxx: 3.0 dB COM to EXP: 2.7 dB COM to TP: 20.4 dB Paired: 4.2 dB (from DP34M08 xxxx to DP34D08 xxxx) 	
Module Uniformity, max	2 dB	
Paired Uniformity, max	1 dB	
Return loss, min	45 dB	
Polarization dependent loss, max	0.15 dB (< 0.1 dB typ)	
Polarization mode dispersion, max	0.1 ps	
Ripple within passband	0.15 dB	
Adjacent channel isolation, min	35 dB	
Non-adjacent channel isolation, min	45 dB	
Directivity, min	xxxx CWDM port: 55 dBEXP Express port: 65 dB	
Power handling, max (any port)	21.8 dBm	



ORDERING INFORMATION	
Part Number	
DP34v08w0tA2S-0LB-yz	v = Module type (M = Mux; D = Demux) w = Packages per module (S = Single, 1-slot; D = Dual, 1-slot) t = Type A, B or C (A = skip 1551/1571; B = skip 1431/1451; C = skip 1531/1551) yz = Connector options (AL = LC/APC; UL = LC/UPC)

RELATED PRODUCTS Industry-standard LGX chassis

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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