

Optical Passives (ISP)

OP35M8x-1-99-AS, OP35D8x-1-99-AS **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 with line monitoring taps (-20 dB from mux output or demux input) and cascade ports
- 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
- SC/APC connectors ensure performance repeatability, compatibility, and easy installation and maintenance
- Industry's highest packaging density (up to 32 modules per chassis)
- Occupies one half-depth slot
- LGX chassis-compatible



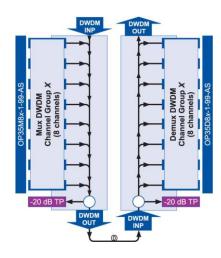
PRODUCT OVERVIEW

The ARRIS OP35M8x-1-99-AS and OP35D8x-1-99-AS 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 59. 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 OP35M8x and OP35D8x series of 8-channel mux and demux modules.

Ask us about the complete Access Technologies Solutions portfolio:

Optical Passives-OP35M8x/D8x





SPECIFICATIONS			
Characteristics	Specification		
Physical	· · · · · · · · · · · · · · · · · · ·		
Dimensions	6.5" D x 5.3" H x 2.0" W (3RU) (16.5 cm x 13.5 cm x 5.1 cm)		
Weight	2.0 lbs (0.9 kg)		
Environmental			
Operating Temperature Range	-20°C to +65°C (-4°F to +149°F)		
Storage Temperature Range	-40°C to +85°C (-40°F 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 (0.1)		
Ripple within passband, max (dB)	0.5		
Channel spacing	100 GHz (ITU grid)		
Wavelength passthrough	1420–1610 nm		
Insertion losses, max ¹ (dB)	Mux Module	Demux Module	
	OP35M8x-1-99-AS	OP35D8x-1-99-AS	
Ch yy INP to DWDM OUT	2.8	N/A	
DWDM INP to Ch yy OUT	N/A	2.8	
Paired insertion loss ²	3.8	3.8	
DWDM INP to DWDM OUT	2.8	2.8	
Uniformity, max ¹ (dB)			
Module	1.8	1.8	
Paired	1.2	1.2	
Passband @ 0.5 dB (nm)	± 0.12	± 0.12	
Directivity, input ports, min (dB)	55	N/A	
Directivity, pass-through port, min (dB)	45	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	24.8	
Optical Interface			
Optical connectors	SC/APC		
Model OP35M8x-1-99-AS	 DWDM INP (input from previous mux) Ch yy INP (8 channel add inputs for Channel Group x) DWDM OUT (output to fiber network or next mux) TP –20 dB (1% tap, test point from DWDM OUT) 		
Model OP35D8x-1-99-AS	 DWDM INP (input from fiber network or previous demux) Ch yy (8 channel drop outputs for Channel Group x) DWDM OUT (to next demux) TP –20 dB (1% tap, test point from DWDM INP) 		
NOTES:			

NOTES

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



ORDERING INFORMATION OPTICAL Passive Mux/Demux Module * = Module Type (M = Mux, D = Demux) 8-channel Module * = DWDM ITU Channel Group 1-99 = Cascade (Pass-through) Port and -20 dB Test Port included

Note:

8-channel mux and demux modules are available for Channel Groups K, M, P, S, and U. Please refer to the ARRIS DWDM ITU Grid Channel Plan data sheet for a complete description of the channels included in these groups.

RELATED PRODUCTS	
CH3000 Chassis	Optical Patch Cords
Optical Transmitters	Optical Passives
HPON™	Installation Services

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.

Copyright Statement: © ARRIS Enterprises, LLC, 2016. All rights reserved. No part of this publication may be reproduced in any form or by any means or used to make any derivative work (such as translation, transformation, or adaptation) without written permission from ARRIS Enterprises, LLC ("ARRIS"). ARRIS reserves the right to revise this publication and to make changes in content from time to time without obligation on the part of ARRIS to provide notification of such revision or change. ARRIS and the ARRIS logo are registered trademarks of ARRIS Enterprises, LLC. Other trademarks and trade names may be used in this document to refer to either the entities daiming the marks or the names of their products. ARRIS disclaims proprietary interest in the marks and names of others. The capabilities, system requirements and/or compatibility with third-party products described herein are subject to change without notice.

87-10601-RevD_OP35M8xD8x-1-99-AS_DWDM-Mux-Demux_100GHz

08/2016 ECO10819

Ask us about the complete Access Technologies Solutions portfolio:

Optical Passives-OP35M8x/D8x