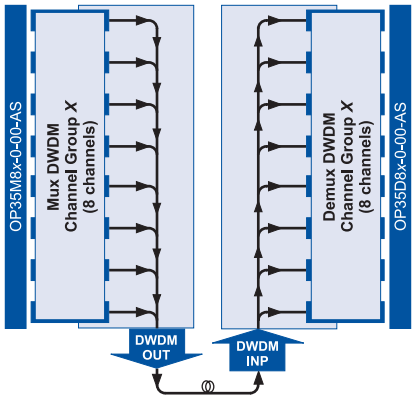
Features

- 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
- 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

DWDM Mux and Demux Modules
(8 Channels on 100GHz-spaced ITU Grid)

Pictured above: Models OP35M8K-0-00-AS 8-channel Mux Module and OP35D8K-0-00-AS 8-channel Demux Module

Aurora Networks' OP35M8*x* and OP35D8*x* 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. Aurora Networks 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 Aurora'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 OP35M8*x* and OP35D8*x* series of 8-channel mux and demux modules.



OP35M8*x* / OP35D8*x*

Product Specifications

Physical:

- 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:

- Operating temperature range: –20º to +65ºC (–4º to +149ºF)
- Storage temperature range: –40º to +85ºC (–40º to +185ºF)
- Humidity: 5% to 95% non-condensing

Optical (all models):

- Return loss, min: 45 dB
- Polarization dependent loss, max: 0.2 dB (<0.1 dB typ)
- Ripple within passband: 0.5 dB
- Channel spacing: 100 GHz (ITU grid)
- Wavelength passthrough: 1420–1610 nm

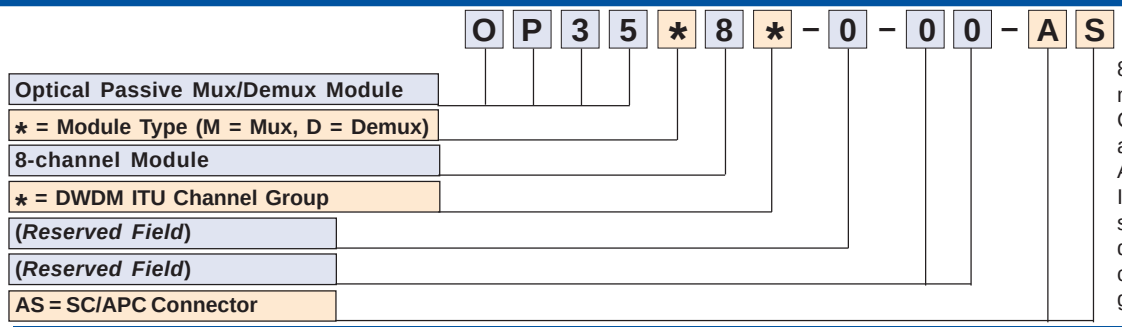
Optical Interface:

- Optical connectors: SC/APC
- Model OP35M8*x*-0-00-AS:
  Ch *yy* INP (8 channel add inputs for Channel Group *x*)
  DWDM OUT (output to fiber network)
- Model OP35D8*x*-0-00-AS:
  DWDM INP (input from fiber network)
  Ch *yy* (8 channel drop outputs for Channel Group *x*)

	Model Number	
	Mux Modules	Demux Modules
	OP35M8*x*-0-00-AS	OP35D8*x*-0-00-AS
• Insertion losses, max[1] (dB)		
Ch *yy* INP to DWDM OUT	2.3	*N/A*
DWDM INP to Ch *yy* OUT	*N/A*	2.3
Paired insertion loss[2]	3.1	3.1
• Uniformity, max[1] (dB)		
Module	1.6	1.8
Paired	1.0	1.0
• Passband @ 0.5 dB (nm)	±0.12	±0.12
• 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	24.8

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



Note

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

aurora NETWORKS

Corporate Headquarters
5400 Betsy Ross Drive
Santa Clara, CA 95054
Tel 408.235.7000
Fax 408.845.9045

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