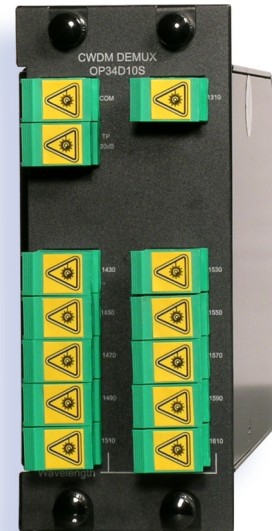![Aurora Networks logo](aurora NETWORKS)

Features

- **Designed for use with uncooled lasers based on 20 nm channel spacing**

- **Flat and wide operating passband on CWDM ITU grid (20 nm spacing)**

- **High channel isolation to minimize crosstalk**

- **Low polarization dependent loss (PDL)**

- **Telcordia GR-1209 and GR-1221 qualified, providing excellent environmental and mechanical stability**

- **Optional integrated 1310 nm combiner/splitter**

- **Optional line monitoring tap**

- **Occupies two half-depth slots**

10-channel CWDM Demultiplexer

The Aurora Networks OP34D10S Series 10-channel CWDM Demultiplexers are designed to demultiplex 10 CWDM ITU-grid optical wavelengths from one fiber input, producing 10 individual wavelengths ranging from 1430 to 1610 nm (with 20 nm spacing between channels).

Optical Passives
(Chassis-mounted)

Physical:

- Dimensions: 6.5" D x 4.3" H x 2.0" W (3RU)
  (16.5 cm x 11 cm x 5.0 cm)
- Weight: 2.5 lbs (1.1 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: 0.15 dB (<0.1 dB typ)
- Ripple within passband: 0.5 dB
- Channel spacing: 20 nm
- Power handling, max (any input port): 21.8 dBm

Optical Interface:

- Optical connectors: SC/APC
- Model OP34D10S-0-00-AS:
  COM (input from fiber network)
  Wavelength *xxxx* (10 channel drops for *xxxx* = 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590 and 1610 nm)
- Model OP34D10S-1-00-AS:
  COM (input from fiber network; I/O to/from fiber network for 1310)
  1310 (input/output to/from fiber network for 1310 nm)
  Wavelength *xxxx* (10 channel drops for *xxxx* = 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590 and 1610 nm)
- Model OP34D10S-0-99-AS:
  COM (input from fiber network)
  Wavelength *xxxx* (10 channel drops for *xxxx* = 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590 and 1610 nm)
  TP –20dB (1% tap, test point from COM)
- Model OP34D10S-1-99-AS:
  COM (input from fiber network; I/O to/from fiber network for 1310)
  1310 (input/output to/from fiber network for 1310 nm)
  Wavelength *xxxx* (10 channel drops for *xxxx* = 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590 and 1610 nm)
  TP –20dB (1% tap, test point from COM)

	Model Number			
	OP34D10S-0-00-AS	OP34D10S-1-00-AS	OP34D10S-0-99-AS	OP34D10S-1-99-AS
• Insertion losses, max[1] (dB)				
COM to Channel *xxxx* output	3.5	3.9	3.7	4.2
1310 to COM	*N/A*	1.1	*N/A*	1.3
Paired insertion loss[2]	4.3	5.2	4.8	5.7
• COM to -20dB Tap Ratio, max[1] (dB)	*N/A*	*N/A*	20.4	20.4
• Passband for CWDM @ 0.5 dB (nm)	13	13	13	13
• Passband for 1310nm @ 0.5 dB (nm)	*N/A*	1270–1350	*N/A*	1270–1350
• Adjacent channel isolation, min (dB)	35	35	35	35
• Non-adjacent channel isolation, min (dB)	45	45	45	45
• 1310-COM isolation, min (dB)	*N/A*	60	*N/A*	60
• CWDM directivity, min (dB)	*N/A*	55	55	55
• 1310 directivity, min (dB)	*N/A*	65	*N/A*	65

NOTES: [1]Including connectors; [2](Paired insertion loss when combined with 10-wavelength mux module from Ch *xxxx* INP to Ch *xxxx* OUT)

Ordering Information

O P 3 4 D 1 0 S – * – * * – A S

10-channel CWDM Demultiplexer

* = 1310 nm I/O Port (0 = not present, 1 = present)

** = –20 dB Test Port (00 = not present, 99 = present)

AS = SC/APC Connector

aurora
N E T W O R K S