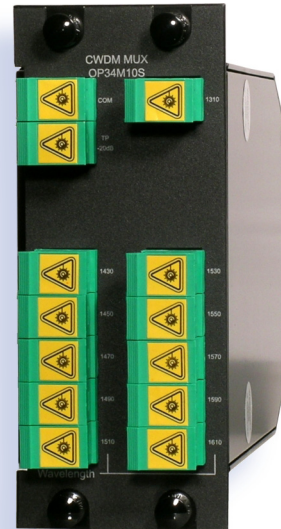


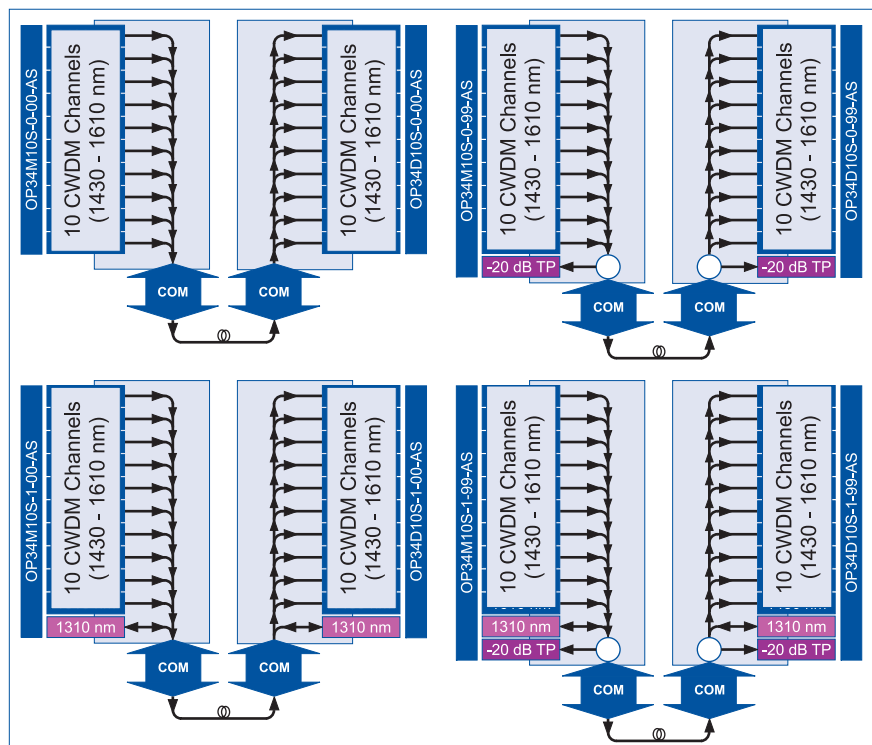
## Features

- 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
- 1310 nm can act as cascade port

## 10-channel CWDM Multiplexer



The Aurora Networks OP34M10S Series 10-channel CWDM multiplexers are designed to multiplex 10 CWDM ITU-grid optical wavelengths onto one fiber output, with the 10 individual wavelengths ranging from 1430 to 1610 nm (with 20 nm spacing between channels).



# OP34M10S

## Product Specifications

### 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: -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: 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 OP34M10S-0-00-AS:
  - COM (output to fiber network)
  - Ch xxxx INP (10 channels added for xxxx = 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590 and 1610 nm)
- Model OP34M10S-1-00-AS:
  - COM (output to fiber network; I/O to/from fiber network for 1310)
  - 1310 (input/output to/from fiber network for 1310 nm)
  - Ch xxxx INP (10 channels added for xxxx = 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590 and 1610 nm)
- Model OP34M10S-0-99-AS:
  - COM (output to fiber network)
  - Ch xxxx INP (10 channels added for xxxx = 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590 and 1610 nm)
  - TP -20dB (1% tap, test point from inputs)
- Model OP34M10S-1-99-AS:
  - COM (output to fiber network; I/O to/from fiber network for 1310)
  - 1310 (input/output to/from fiber network for 1310 nm)
  - Ch xxxx INP (10 channels added for xxxx = 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590 and 1610 nm)
  - TP -20dB (1% tap, test point from inputs)

	Model Number			
	OP34M10S-0-00-AS	OP34M10S-1-00-AS	OP34M10S-0-99-AS	OP34M10S-1-99-AS
• Insertion losses, max <sup>1</sup> (dB)				
Ch xxxx INP to COM	3.5	3.9	3.7	4.2
1310 to COM	N/A	1.1	N/A	1.3
Paired insertion loss <sup>2</sup>	4.3	5.2	4.8	5.7
• COM to -20dB Tap Ratio, max <sup>1</sup> (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
• CWDM directivity, min (dB)	55	55	55	55
• 1310 directivity, min (dB)	N/A	65	N/A	65
• 1310-COM isolation, min (dB)	N/A	60	N/A	60

NOTES: <sup>1</sup>Including connectors; <sup>2</sup>(Paired insertion loss when combined with 10-wavelength demux module from Ch xxxx INP to Ch xxxx OUT)

## Ordering Information

OP34M10S - \* - \* \* - AS

10-channel CWDM Multiplexer

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

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

AS = SC/APC Connector



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