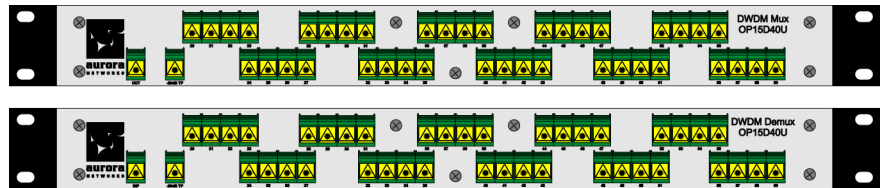


Features

- Mux and demux chassis in 1RU 19" housing
- 40 channels on standard DWDM ITU Grid (ITU-T G.694.1, 100 GHz spacing)
- Supports both forward and return path transmission of analog and digital signals
- Wide passband, flat response
- High isolation
- No powering required
- Mux and demux optimized for minimum paired insertion loss across all channels
- SC/APC connectors ensure performance repeatability, compatibility and easy installation and maintenance
- -20 dB Test Point
- Industry's highest packaging density

www.aurora.com

40-channel DWDM Optical Mux and Demux Chassis



Aurora Networks' OP15M40 and OP15D40 series multiplexers and demultiplexers facilitate implementation of Dense Wave Division Multiplexing (DWDM) architectures and are designed to minimize the combined insertion loss of multiplexing and demultiplexing. DWDM solutions can dramatically increase network capacity without requiring additional fiber be deployed for super-trunking or narrowcasting applications.

OP15M40/ OP15D40

Product Specifications

Physical:

- Dimensions: 13.1" D x 1.75" H x 19.0" W (1RU) (33.3 cm x 4.5 cm x 48.5 cm)
- Weight: 10.1 lbs (4.6 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:

- Optical connectors: SC/APC
- Channel spacing: 100 GHz
- Channel plan: See DWDM ITU Channel Plans description.

ITU Channel Plans:

Aurora Networks supports DWDM network 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 (1561.42 nm) to Channel 59 (1530.33 nm). The OP15M40U and OP15D40U mux and demux chassis encompass all 40 of these channels.

For more complete description of available DWDM ITU Grid channels and Aurora's related products for DWDM mux and demux applications, please refer to the Aurora Networks DWDM ITU Grid Channel Plan data sheet.

When ordering equipment, please note, for network planning purposes, that AT3550 "BA" series broadcast transmitters operate at 1563.0 nm ±0.9 nm, occupying the approximate region of DWDM ITU Grid channels 17 through 19. Similarly, AT3550 "BC" series broadcast transmitters operate at 1545.3 ±0.9 nm, occupying the approximate region of DWDM ITU Grid channels 39 through 41.

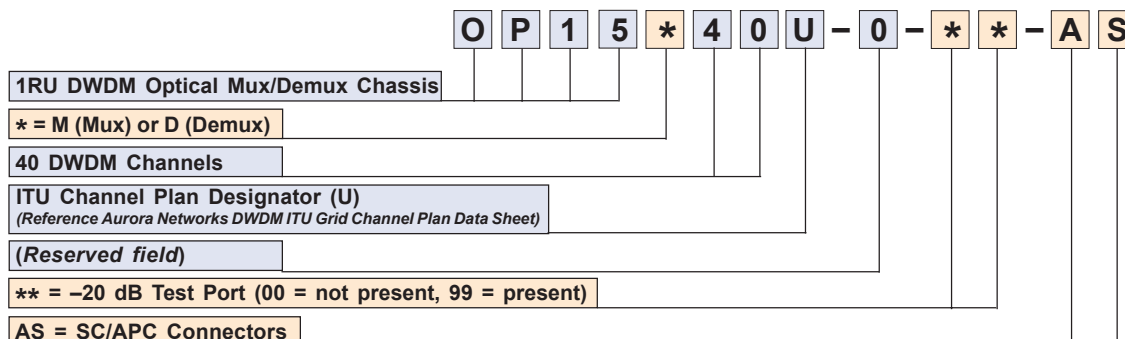
Base Model Number:	Mux Model OP15M40U	Demux Model OP15D40U
Transmit insertion loss ¹ (dB)		
Typical	3.6	3.6
Maximum	4.0	4.0
Mux-demux paired insertion loss ^{1,2} (dB)		
Typical	6.2	6.2
Maximum	6.5	6.5
Uniformity ¹ (dB)		
Typical	1.6	1.6
Maximum	2.0	2.0
Paired uniformity ¹ (dB)		
Typical	0.8	0.8
Maximum	1.4	1.4
Pass band @ 0.5 dB, min (nm)	±0.125	±0.125
Directivity, min (dB)	55	55
Return loss, min (dB)	45	45
Input power handling (any port), max (dBm)	21.8	24.8
Adjacent channel isolation, min (dB)	N/A	30
Non-adjacent channel isolation, min (dB)	N/A	45

Table Notes

- ¹ Insertion losses and uniformity including connector
² Paired insertion losses when combined with the corresponding 40-channel mux/demux chassis (from Ch xx INP to Ch xx OUT)

Models with -20 dB Test Points are 1% taps, with test point measurements from the DWDM OUT and DWDM INP ports for the OP15M40U and OP15D40U chassis, respectively.

Ordering Information



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