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Cisco ONS 15216 48-Channel 50-GHz De-Interleaver with Coupler

Product Overview

The Cisco[®] ONS 15216 48-Channel 50-GHz De-Interleaver with Coupler plugs into either the Cisco ONS 15216 Exposed Faceplate Mux/Demux 40-Channel Patch Panel or the Cisco ONS 15216 Exposed Faceplate Mux/Demux 48-Channel Patch Panel for an in-service capacity upgrade from 40 to 80 channels or from 48 to 96 channels.

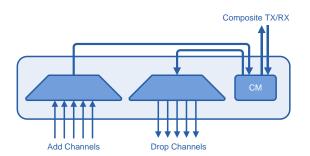


Figure 1. Cisco ONS 15216 48-Channel 50-GHz De-Interleaver with Coupler

The de-interleaver with coupler is also compatible with the existing Cisco ONS 15216 Mux/Demux 40-Channel Patch Panel. The previous interleaver de-interleaver module, Cisco ONS 15216 Mux/Demux 40-Channel Patch Panel and Cisco ONS 15216 Mux/Demux Patch Panel 50-GHz Interleaver De-Interleaver (15216-MD-ID-50) is compatible with all 40-channel muxponder/demuxponder units, but not with the Cisco ONS 15216 Exposed Faceplate Mux/Demux 48-Channel Patch Panel. The Cisco ONS 15216 48-Channel 50-GHz De-Interleaver with Coupler is recommended for systems transporting 100-Gbps wavelengths, as its use of a coupler instead of an interleaver on the transmit stage reduces filtering penalties.

Figures 2 and 3 illustrate the different application configurations in which the Cisco ONS 15216 48-Channel 50-GHz De-Interleaver with Coupler can be deployed.

Figure 2. 40- or 48-Channel In-Service Upgrade to 80- or 96-Channel Standalone Configuration



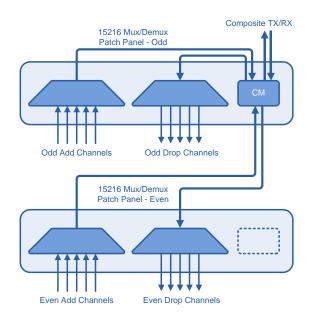


Figure 3. 80- or 96-Channel Standalone Configuration

Product Specifications

Tables 1 through 4 provide optical, environmental, mechanical, compatibility and compliance specifications for the Cisco ONS 15216 48-Channel 50-GHz De-Interleaver with Coupler.

Table 1.	Optical Specifications
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Parameter	Minimum	Typical	Maximum
Input optical power	500 mW		
De-Interleaver Specification	'		
Insertion loss	1.5 dB	± 1.8 dB	2.5 dB
Insertion loss uniformity		0.35 dB	0.5 dB
Channel band ripple			0.3 dB
Group delay ripple (GDR)		1.8 dB	±2.5 dB
Chromatic dispersion (CD)		±15.0 ps/nm	±20.0 ps/nm
Optical return loss	40 dB	45 dB	
Polarization dependent loss (PDL)		0.3 dB	0.4 dB
Polarization mode dispersion (PMD)		0.25 ps	0.3 ps
Operating bandwidth	±10 GHz		
Adjacent channel isolation	25 dB	28 dB	
Directivity	40 dB		
Coupler Specification			
Insertion loss	2.5 dB		3.5 dB
Insertion loss uniformity			0.5 dB
Insertion Loss ripple			0.2 dB
Chromatic dispersion			±5.0 ps/nm

Parameter	Minimum	Typical	Maximum
Optical return loss	40 dB		
Polarization dependent loss			0.1 dB
Polarization mode dispersion			0.1 ps
Directivity	50 dB		

Table 2. Environmental and Mechanical Specifications

Parameter	Minimum	Maximum
Operating temperature range	23ºF (–5ºC)	149ºF (65ºC)
Storage temperature range	-40°F (-40°C)	185°F (85°C)
Height		2.44 in. (62.2 mm)
Width		2.65 in. (67.2 mm)
Depth		9.9 in. (251.7 mm)
Weight		1.1 lbs. (0.5 kg)
Humidity	5%	95%
USB port power	400 mW	600 mW

Table 3. Coupler and De-Interleaver Compatibility

Muxponder/Demuxponder Product Number	48-Channel 50-GHz/100-GHz Optical De-interleaver with Coupler Module (15216-MD-48-CM)	50-GHz/100-GHz Optical Interleaver and De-interleaver Module (15216-MD-ID-50)
15216-EF-40-ODD	Yes	Yes
15216-EF-40-EVEN	Yes	Yes
15216-MD-48-ODD	Yes	No
15216-MD-48-EVEN	Yes	No
15216-MD-40-ODD	Yes	Yes
15216-MD-40-EVEN	Yes	Yes

Table 4.Regulatory Compliance

Safety	Environmental
GR-1089-Issue 6	GR-63-CORE Issue 3
UL60950-1	
IEC 60950-1 Ed.2	

Ordering Information

Table 5 provides ordering information.

Table 5.Ordering Information

Part Number	Description
15216-MD-48-CM=	Cisco ONS 15216 48-Channel 50-GHz De-Interleaver with Coupler

For More Information

For more information, visit <u>Cisco ONS 15216 DWDM System</u>, or contact your local account representative. Also visit <u>Cisco End-of-Life Policy</u> and <u>Subscribe</u> to receive end-of-life and end-of-sale information.



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