

Cisco ONS 15216 Metro DWDM 100 GHz Terminal Filters



Introduction

Cisco is proud to announce orderability of the Cisco ONS 15216 Metropolitan DWDM 32 channel terminal filters (multiplexer/demultiplexer) operating at 100 GHz wavelength spacing. The Cisco ONS 15216 100 GHz filter solution enables service providers and enterprise customers to deploy point-to-point, bus and ring networks using the terminal filter mux/demux and optical add/drop mux (Cisco ONS 15216 100 GHz OADM, not yet orderable). The ONS 15216 platform provides an open and flexible solution to combine up to 32 wavelengths launched by any combination of the ONS 15454, ONS 15252, and ONS 15201.

The Cisco ONS 15216 Metro DWDM 100 GHz terminal filters support up to 32 wavelengths and include the following elements:

- **16 Wavelength Base Red Filter**—The base filter assembly, the ONS 15216 red filter, is a passive unit comprising a 100-GHz 16 x 1 wavelength unidirectional multiplexer (mux) and a 100-GHz 1-x-16 wavelength unidirectional demultiplexer (demux) operating in the 1546 to 1561 nm band. The mux and demux systems connect to independent fibers to the carrier’s fiber facilities through the common ports on the chassis faceplate. The base unit integrates two pairs of expansion ports, enabling in-service upgradeability from 16 mux/demux wavelengths to 32 wavelengths. Also, the base unit incorporates two monitor ports, allowing the user unobtrusive access to the transmitted and received signals (see Figure 1) for monitoring or analysis. The filter mounts in a 19- or 23-inch rack and occupies 2 RU.
- **16 Wavelength Upgrade Blue Filter**—The upgrade filter assembly, the ONS 15216 blue filter, is a passive unit comprising a 100-GHz 1-x-16 wavelength unidirectional multiplexer and a 100-GHz 1-x-16 wavelength unidirectional demultiplexer operating in the 1530-nm to 1545-nm band. The upgrade filter connects via its front-panel common connector ports to the base unit’s upgrade ports via user-supplied optical patch cords. The filter mounts in a 19- or 23-inch rack and occupies 2 RU.

Figure 1 Cisco ONS 15216 Metro DWDM 100 GHz Terminal Filters (Red and Blue)



The Cisco ONS 15216 100 GHz Terminal Filters offer the following benefits to customers.

- *Supercharged wavelength services*—Allows service providers to aggregate subwavelength and wavelength services onto DWDM networks to maximize service density and revenue per optical fiber. Subwavelength services can be combined with wavelength services on the same network.
- *Unprecedented transport flexibility*—Supports a range of applications from point-to-point DWDM to more advanced OADM rings scaling to several-hundred-kilometer ring circumferences. Could support up to 32 OADM sites, including a combination of Cisco ONS 15252, ONS 15201 Metro DWDM platforms and ONS 15454 and ONS 15327 Optical Transport platforms.
- *Radical economics*—Reduces network costs by eliminating transponders and leveraging the ITU interfaces available for the Cisco ONS 15454 or other ITU-enabled, multiservice platforms. Also provides cost-effective solutions for transponder-based services using the ONS 15252 and ONS 15201, in particular for amplified networks together with the ONS 15216 EDFA.
- *Easy channel upgrades*—Upgrades from base red filters to blue filters can be accomplished without disturbing existing channels on the red filter.
- *Network Management Integration*—Cisco Transport Manager (CTM) provides integrated management of the complete optical network including the ONS 15454, ONS 15252, ONS 15201 and all other optical products in the Cisco portfolio.

Availability and Ordering Information

The Cisco ONS 15216 100 GHz Terminal Filters are orderable today with first customer shipment (FCS) scheduled for November 30, 2001.

The Cisco ONS 15216 100 GHz Terminal Filters may be ordered through the Cisco Networking Products Marketplace online order entry tool. To access current CLEI code information for all Cisco products, please refer to the Cisco online CLEI Code Tool <http://tools.cisco.com/emco/pnclei/prsc>

More Informations

For more information on the Cisco ONS 15200 Metro DWDM Series, go to <http://www.cisco.com/en/US/products/hw/optical/ps1996/index.html>



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