



COMMON OPTICAL FILTERS

For the 4200 Family

Features and Benefits

- Filters available in multiple channel plans to fit any network need:
 - CWDM filters: 1-, 2-, 4-, and 8-channel, with and without integrated 1310 nm or 1550 nm/DWDM ports
 - 200 GHz DWDM filters: 2-, 4-, and 8-channel; Red/Blue band-splitter
 - 100 GHz DWDM filters: 4- and 8-channel; 1-, 2-, 3-, and 5-group band-splitters
 - Wide-band filters: for 1310 nm and 1550 nm/DWDM band MUX/DeMUX
- Features available optical monitoring ports on the DWDM modules
- Provides extended temperature range operation for CWDM filters
- Supports combined CWDM and DWDM transport on a single fiber

Common Optical Filters extend optical add/drop functionality to Ciena's 4200 5-slot, 4200 MC 2-slot, and 4200 RS 17-slot Advanced Services Platforms. Available in Coarse Wavelength Division Multiplexing (CWDM) as well as 100 GHz and 200 GHz Dense WDM (DWDM) channel plans, these modular filters allow operators to multiplex up to 40 optical channels over a common fiber pair.

Each filter offers a unique set of optical attributes, including one- to eight-channel wavelength multiplexing/demultiplexing counts; and support for SONET/SDH network or C/DWDM interworking via an add/drop function for a 1310 nm wavelength or an unspecified 1550 nm/DWDM passband.

The Common Optical Filters accommodate channel growth without service interruption. In addition, the filters' low network-to-express loss allows stacking, which is essential for scaling new wavelengths. Most filters are equipped with an express port to pass through non-dropped/added WDM channels. Interconnecting the express ports of two filters forms an Optical Add/Drop Multiplexer (OADM) with east/west fiber connections, which is essential for ring and other 1+1 protected networks. High filter isolation eliminates disruptive "shadow" wavelengths and allows channels that have been dropped at a node to be used elsewhere downstream.

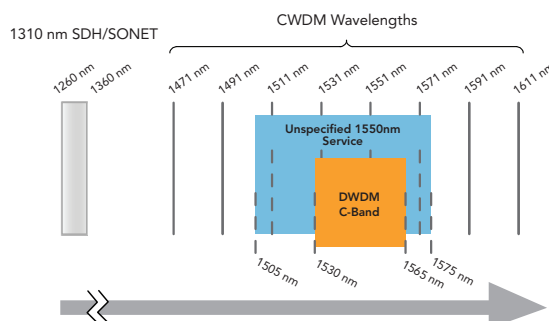


Figure 1. Common Optical Filters are ITU grid-aligned for both CWDM and DWDM, and can support both on the same fiber.