## Cisco CWDM-SFP-1490 Datasheet



Cisco CWDM-SFP-1490 CWDM 1490-nm SFP; Gigabit Ethernet and 1 and 2 Gb Fibre Channel CWDM-SFP-1490

The Cisco Coarse Wavelength-Division Multiplexing (CWDM) Small Form-Factor Pluggable (SFP) solution allows enterprise companies and service providers to provide scalable and easy-to-deploy Gigabit Ethernet and Fibre Channel services in their networks. The product set helps enable the flexible design of highly available, multiservice networks.

The Cisco CWDM SFP solution is a convenient and cost-effective solution for the adoption of Gigabit Ethernet and Fibre Channel in campus, data-center, and metropolitan-area access networks.

The Cisco CWDM SFP solution has two main components: a set of eight different pluggable transceivers (Cisco CWDM SFPs), and a set of different Cisco CWDM passive multiplexer/demultiplexer or optical add/drop multiplexers (OADMs). A Cisco CWDM chassis enables rack-mounting up to two of the Cisco CWDM passives. Both the transceivers and the passive multiplexers are compliant with the ITU-T G.694.2 standard defined CWDM grid.

Key features and benefits

Scalability
The Cisco CWDM SFP solution helps enable the transport of up to eight channels (Gigabit Ethernet or Fibre Channel) over single-mode fiber strands.
Easy Deployment and flexible implementation
The Cisco CWDM SFP fits into a standard SFP port supporting the IEEE 802.3z standard on the supported Cisco Systems® platforms. The Cisco CWDM OADM is passive and requires no power. Neither the Cisco CWDM SFP nor the Cisco CWDM passives requires configuration.
The Cisco CWDM SFP solution allows for a variety of network configurations—from multichannel point-to-point to hub and meshed-ring configurations.
High availability
The Cisco CWDM SFP solution takes advantage of a multichannel architecture and the inherent protection of ring architectures. The solution helps enable:

build highly available links
<ul> <li>Use of two-path link configurations in a ring architecture to provide protection from fiber cuts</li> </ul>
Investment protection
The Cisco CWDM SFP solution helps enable enterprises and service providers to increase the bandwidth of an existing Gigabit Ethernet optical infrastructure without adding new fiber strands. The solution can be used in parallel with other Cisco SFP devices on the same platform.
Mesh (ring) configuration
Mesh deployments are a combination of hub-and-spoke and point-to-point or even multiple point-to-point connections in parallel on the same optical link. Deployment of the maximum eight wavelengths allows for different combinations of these scenarios.
Cisco CWDM SFPs
A Cisco CWDM SFP is a hot-swappable input/output device that plugs into an SFP port or slot of a Cisco switch or router, linking the port with the fiber-optic network.

• Use of Layer 2 and Layer 3 redundancy and failover mechanisms at the channel endpoints (Cisco CWDM SFP) to

The Cisco CWDM SFPs are multirate p	arts that support both Gigabit Ether	net and Fibre Channel (1 gigabit and 2 gig	gabit).
Performance			
	l-duplex links with an optical link bu		
Connectors and cabling			
<ul><li>Equipment: Standard SFP inter</li><li>Network: Dual LC/PC connector</li></ul>			
Note: Only connections with patch con are not supported.	rds with PC or UPC connectors are s	upported. Patch cords with APC connecto	ors
Environmental conditions and power	requirements		
<ul> <li>Operating temperature range: –4</li> <li>Storage temperature range: –4</li> </ul>			
Electrical power interface data			
Parameter	Symbol	Minimum	Typical
Supply Current	Is		220
Surge Current	Isurge		

## Optical parameters

Parameter	Symbol	Minimum	Typical
Transmitter Center Wavelength	wavelengthc	(x-4)	
Side-Mode Suppression Ratio	SMSR	30	
Transmitter Optical Output Power	Pout	0	