

CPAK-100G-CWDM4= Datasheet



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Overview

Cisco CPAK® 100GBASE fiber modules for Cisco® switches and routers offer a selection of high-density 100-Gbps connectivity solutions. The modules are especially well suited for connections in enterprise and service provider data centers and in service provider edge networks.

Quick Specs

Table 1 shows the Quick Specs.

Product Code	CPAK-100G-CWDM4=
Description	100GBASE-CWDM4 Cisco CPAK Module for SMF
Dimensions	11.6 x 34.8 x 101.2 mm (0.46 x 1.37 x 3.98 in)
Wavelength (nm)	1271, 1291, 1311, 1331
Cable Type	SMF Duplex
Core Size (Microns)	9-micron core SMF per G.652
Modal Bandwidth (MHz*km)	\
Cable Distance	2 km

Product Details

Table 2 Cisco CPAK 100GBASE module features and benefits

Requirement	Cisco CPAK Module Supporting Feature
Accommodate ever-growing bandwidth requirements	Up to 10 100-Gigabit Ethernet connections deliver as much as 1 Tbps of front-panel bandwidth
Control costs	Form factor consumes 40% less power than CFP2 and 70% less power than CFP form factors
Real estate conservation	Minimal footprint allows 20% greater port density and bandwidth than competing products
High availability for business continuity	Hot-swappable input/output device plugs into a Cisco CPAK-module-based switch, router, or optical platform port
Accommodate a variety of distance and fiber type requirements	Flexible interface choices
Investment protection, affordable migration to higher bandwidth	•Support for a "pay-as-you-grow" model •Can plug any Cisco 100-Gbps, 40-Gbps, and 10-Gbps line cards into Cisco CPAK modules (supports the Cisco AnyPort solution)
Manage performance	Digital Optical Monitoring (DOM) support
Proper functioning and high performance with all Cisco platforms	Cisco quality identification (ID) feature enables a Cisco platform to identify whether the module is certified and tested by Cisco
Standards compliance for equipment flexibility and choice	Interoperability with any IEEE-compliant: 100GBASE-SR4, 100GBASE-LR4, 100GBASE-SR10, 40GBASE-SR4, 10GBASE-SR, 10GBASE-LR

Platform support

Cisco CPAK 100GBASE modules are supported on Cisco high-end switches, routers, and transport equipment:

- ASR 9000 Series Router

- CRS-X Carrier Routing System
- NCS 2000, 4000, and 6000 Series Routers
- Nexus 7000 and 7700 Series Switches
- Cisco ONS Transport PlatformCompare to Similar Items

Compare to Similar Items

Table 3 shows the comparison.

Parameters	CPAK-100G-CWDM4=	CPAK-100GE-LR4=	CPAK-100G-ER4L=	CPAK-100G-LR4=	CPAK-100G-PSM4=	CPAK-100G-SR4=	CPAK-100G-SR10=
Description	100GBASE-CWDM4 Cisco CPAK Module for SMF	100GBASE-LR4 Cisco CPAK Module for SMF (terminated with LC Connectors)	100GBASE-ER4 Lite Cisco CPAK Module for SMF	100GBASE-LR4 Cisco CPAK Module for SMF (terminated with LC Connectors)	100GBASE-PSM4 Cisco CPAK Module for SMF	100GBASE-SR4 Cisco CPAK Module for MMF	100GBASE-SR10 Cisco CPAK Module for MMF
Dimensions	11.6 x 34.8 x 101.2 mm (0.46 x 1.37 x 3.98 in)	11.6 x 34.8 x 101.2 mm (0.46 x 1.37 x 3.98 in)	11.6 x 34.8 x 101.2 mm (0.46 x 1.37 x 3.98 in)	11.6 x 34.8 x 101.2 mm (0.46 x 1.37 x 3.98 in)	11.6 x 34.8 x 101.2 mm (0.46 x 1.37 x 3.98 in)	11.6 x 34.8 x 101.2 mm (0.46 x 1.37 x 3.98 in)	11.6 x 34.8 x 101.2 mm (0.46 x 1.37 x 3.98 in)
Wavelength (nm)	1271, 1291, 1311, 1331	1310	1310	1310	1295 to 1325	850	850
Cable Type	SMF Duplex	SMF Duplex	SMF Duplex	SMF Duplex	SMF (12 fibers)	MMF (12 fibers)	MMF (12 fibers)
Core Size (Microns)	9-micron core SMF per G.652	9-micron core SMF per G.652	9-micron core SMF per G.652	9-micron core SMF per G.652	9-micron core SMF per G.652	50.0 50.0	50.0 50.0
Modal Bandwidth (MHz*km)	\	\	\	\	\	2000 (OM3) 4700 (OM4)	2000 (OM3) 4700 (OM4)
Cable Distance	2 km	10 km	25 km	10 km	500 m	70 m 100 m	100 m 150 m
Supported Mode	1x100G	1x100G	1x100G	1x100G	1x100G	1x100G	1x100G 2x40G 10x10G
Supported Protocol	IEEE 802.3ba	IEEE 802.3ba	IEEE 802.3ba ITU OTU4	IEEE 802.3ba ITU OTU4	IEEE 802.3ba	IEEE 802.3ba	1x100G: IEEE 802.3ba ITU OTU4 2x40G: IEEE 802.3ba ITU OTU3 10x10G: IEEE 802.3ae FC ITU OTU2 ITU OTU1e ITU OTU2e

Get More Information

Do you have any question about the CPAK-100G-CWDM4=?

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Specification

Description	100GBASE-CWDM4 Cisco CPAK Module for SMF
Dimensions	11.6 x 34.8 x 101.2 mm (0.46 x 1.37 x 3.98 in)
Cisco CPAK port cabling specifications	
Wavelength (nm)	1271, 1291, 1311, 1331
Cable Type	SMF Duplex
Core Size (Microns)	9-micron core SMF per G.652
Modal Bandwidth (MHz*km)	\
Cable Distance	2 km
Optical transmit and receive specifications	
Type	100GBASE CWDM4 SMF
Transmit Power	Max:+2.5 per lane Min:-6.5 per lane
Receive Power (dBm)	Max:+2.5 per lane Min:-10 per lane
Transmit and Receive Center Wavelength Range (nm)	100GBASE CWDM4 SMF
Supported Mode	1x100G
Supported Protocol	IEEE 802.3ba
Environmental conditions and power requirements	
Storage temperature	-40 to 85° C (-40 to 185° F)
Operating temperature	0 to 70° C (32 to 158° F)
Power consumption	At 70° C: <9.0 W maximum

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