

Cisco QDD-400G-FR4-S Compatible  
400GBASE-FR4 QSFP-DD PAM4  
Optical Transceiver Module  
(SMF, 1310nm, 2km, LC, DOM)



## Product Specifications

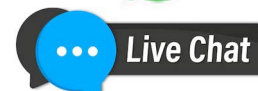
<b>Form Factor</b> QSFP-DD	<b>Data Rate</b> 400Gbps
<b>Wavelength</b> 1271nm,1291nm,1311nm,1331nm	<b>Cable Distance*</b> 2km
<b>Connector</b> Duplex LC (UPC)	<b>Cable Type</b> SMF
<b>Transmitter Type</b> CWDM EML	<b>Receiver Type</b> PIN
<b>TX Power</b> -3.3~3.5dBm	<b>RX Power</b> -7.3~3.5dBm
<b>Power Budget</b> 4dB	<b>Modulation</b> 8x 50G PAM4
<b>Power Consumption</b> ≤10W	<b>Extinction Ratio</b> 3.5dB
<b>DDM/DOM</b> Yes	<b>Commercial Temperature</b> 0 to 70°C
<b>DSP</b> TX and RX	<b>Inbuilt FEC</b> No
<b>Core Size</b> G.652/9um	<b>Packaging Technology</b> COB
<b>Protocols</b> IEEE 802.3bs, QSFP-DD MSA, CMIS 4.1	

\* Full 2km reach requires the use of FEC on the host platform.



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**Compatible Switches and Routers:**

- Cisco 8000 Series Routers (8201-SYS)
- Cisco 8000 Series Routers (8202-SYS)
- Cisco 8000 Series Routers (8800-LC-36FH)
- Cisco 8000 Series Routers (8201-32FH)
- Cisco 8000 Series Routers (88-LC0-36FH-M)
- Cisco 8000 Series Routers (88-LC0-36FH)
- Cisco ASR 9000 Series (A9K-20HG-FLEX-SE)
- Cisco ASR 9000 Series (A9K-20HG-FLEX-TR)
- Cisco ASR 9000 Series (A9K-8HG-FLEX-SE)
- Cisco ASR 9000 Series (A9K-8HG-FLEX-TR)
- Cisco ASR 9000 Series (A9K-20HG-FLEX-FC)
- Cisco ASR 9000 Series (A9K-8HG-FLEX-FC)
- Cisco ASR 9000 Series (ASR-9903)
- Cisco ASR 9000 Series (A9903-20HG-PEC)
- Cisco ASR 9000 Series (A99-10X400GE-X-TR)
- Cisco ASR 9000 Series (A99-10X400GE-X-SE)
- Cisco Nexus 9300 Series (N9K-C93600CD-GX)
- Cisco Nexus 9300 Series (N9K-C9316D-GX)
- Cisco Nexus 9300 Series (N9K-C9332D-GX2B)
- Cisco Nexus 9500 Series (N9K-X9716D-GX)
- Cisco Nexus 9500 Series (N9K-X9624D-R2)
- Cisco NCS 540 Series (N540-24Q8L2DD-SYS)
- Cisco NCS 5500 Series (NC57-24DD)
- Cisco NCS 5500 Series (NC57-18DD-SE)
- Cisco NCS 5500 Series (NCS-57B1-6D24H-S)
- Cisco NCS 5500 Series (NCS-57B1-5D24-SE)
- Cisco NCS 5500 Series (NC57-MPA-2D4H-S)

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