

Cisco QDD-ER8-400G Compatible  
400GBASE-ER8 QSFP-DD PAM4  
Optical Transceiver Module  
(SMF, 1310nm, 40km, LC, DOM)



## Product Specifications

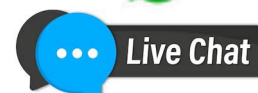
<b>Form Factor</b> QSFP-DD	<b>Data Rate</b> 400Gbps
<b>Wavelength</b> 1310nm	<b>Cable Distance*</b> 40km
<b>Connector</b> Duplex LC (UPC)	<b>Cable Type</b> SMF
<b>Transmitter Type</b> LWDM EML	<b>Receiver Type</b> APD
<b>TX Power</b> -0.6~5.6dBm	<b>RX Power</b> -16.1~-3.4dBm
<b>Power Budget</b> 15.5dB	<b>Modulation</b> 8x 50G PAM4
<b>Power Consumption</b> ≤10W	<b>Extinction Ratio</b> 6dB
<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> BOX
<b>Protocols</b> IEEE 802.3cn, QSFP-DD MSA, CMIS 4.0	

\* Channel insertion loss is 18dB for 40km



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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 3000 Series (N3K-C3408-S)
- Cisco Nexus 3000 Series (N3K-C3432D-S)
- 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 5500 Series (NC57-24DD)
- Cisco NCS 5500 Series (NC57-18DD-SE)

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