

Product Name	Part No
Qsfp-Dd Fr4 400Gbase-Fr4 Qsfp-Dd Optics Single Mode Transceiver Module, Pam4, 2km, Smf 1310nm, Lc, Dom	JT-QSFPDD-400G-FR4

Description

Qsfp-Dd Fr4 400Gbase-Fr4 Qsfp-Dd Optics Single Mode Transceiver Module, Pam4, 2km, Smf 1310nm, Lc, Dom

400GBASE-FR4 QSFP DD optical transceiver is designed for high-speed, long-range 400 Gigabit Ethernet applications of up to 400 gigabits per second. The JT-OSFP-400G-FR4 is offered with optical LC Duplex Connector. This module utilizes the 400GBASE-FR4 technology for transmission. With this transceiver, two Ethernet switches can be connected through two single-mode fiber cores. The JT-QSFPDD-400G-FR4 supports a transmission distance of up to 2 kilometers.

JTOPTICS 400GBASE-FR4 module supports link lengths of up to 2km SMF with duplex LC connector. It is compliant to IEEE 802.3bs, 400GBASE-FR4 Spec of 100G Lambda MSA group, and 400GAUI-8/CEI-56G-VSR-PAM4 standards. The 400 Gigabit Ethernet signal is carried over four CWDM grid optical wavelengths. Multiplexing and demultiplexing of the four wavelengths are managed within the device.

FEATURES	<ul style="list-style-type: none"> - 4 channels full-duplex transceiver modules - Transmission data rate up to 100Gbps per channel - 4x100Gbps PAM4 transmitter and PAM4 receiver - 4 channels 1310nm EML array - 4 channels PIN photo-detector array - Internal CDR circuits on both receiver and transmitter channels - Power consumption < 10W - Reach up to 2 Km SMF - LC connector receptacle - Built-in digital diagnostic functions - Operating case temperature range 0°C to +70°C - 3.3V power supply voltage - RoHS compliant (lead free)
APPLICATIONS	<ul style="list-style-type: none"> - Data center - 100GBASE-LR4

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Connector:	LC Duplex
DDM/DOM:	Supported
Wavelength:	1310nm
Electric Signal:	8x50G
Form factor:	QSFP-DD

Commercial Temperature Range:	0 to 70°C (32 to 158°F)
TX Power:	-3.3~3.5dBm
Max Data Rate:	400Gbps
Media:	SMF
Application:	400GBASE Ethernet
Max Cable Distance:	2km
Modulation Format:	PAM4
Optical Signal:	4x100G
Protocols:	QSFP-DD MSA Compliant
Receiver Type:	PIN
Receiver Sensitivity:	<-7.3dBm
Transmitter Type:	EML CWDM4
Power Consumption:	<12W

