

DATASHEET 5.8

QSFP-DD OVERVIEW

OVERVIEW

The tables below list the QSFP-DD transceivers currently provided in the Smartoptics portfolio and with the most characteristic parameters. Please refer to the respective datasheets for more technical information.

400G GREY QSFP-DD TRANSCEIVERS

Part number	Protocols	Dist	Wavelengths	Fiber	Conn	Standard / MSA	Pwr budget
TQD024-M85C-SO	400GE	100m	8x 850nm	MM	1x MPO	400BASE-SR8 / CMIS4.0	2dB
SO-QSFP-DD-4C-DR4-M	400GE	500m	4x 1311nm	SM	1x MPO	400G-DR4 / CMIS3.0	3dB
SO-QSFP-DD-4C-DR4-4-M	400GE	500m	4x 1311nm	SM	1x MPO	400G-DR4 / CMIS4.0	3dB
SO-QSFP-DD-4C-FR4	400GE	2km	1271/1291/1311/1331nm	SM	2x LC	400G-FR4 / CMIS3.0	4dB
SO-QSFP-DD-4C-FR4-4	400GE	2km	1271/1291/1311/1331nm	SM	2x LC	400G-FR4 / CMIS4.0	4dB
SO-QSFP-DD-4C-LR4	400GE	10km	1271/1291/1311/1331nm	SM	2x LC	400G-LR4 / CMIS3.0	6.3dB
SO-QSFP-DD-4C-LR4-4	400GE	10km	1271/1291/1311/1331nm	SM	2x LC	400G-LR4 / CMIS4.0	6.3dB
TQD015-S31C-SO	400GE	10km	4 x 1311nm	SM	1x MPO	400G-LR4 / CMIS4.0	6.8dB
TQD016-S31C-SO	400GE	10km	4 x 1311nm	SM	1x MPO	400G-LR4 / CMIS3.0	6.8dB
TQD018-S31C-SO	400GE	10km	4 x 1311nm	SM	8x SN	400G-LR4 / CMIS4.0	6.8dB
TQD027-S55C-SO	400GE	40km	1x1550nm (193.7THz)	SM	2x LC	400G-ER1 Coh / CMIS5.0	13.0dB

Dist: Typical distance, normally based on dispersion properties.

Pwr budget: Difference between average min Tx power and Rx sensitivity. Dispersion/path penalties not taken into account.

200G GREY QSFP28-DD TRANSCEIVERS

Part number	Protocols	Dist	Wavelengths	Fiber	Conn	Standard / MSA	Pwr budget
SO-QSFP-DD-2C-10	2x 100GE	10km	1296/1300/1304/1309 nm	SM	CS	100G-LR4 / CMIS3.0	7.3dB
SO-QSFP-DD-2C-10-4	2x 100GE	10km	1296/1300/1304/1309 nm	SM	CS	100G-LR4 / CMIS4.0	7.3dB

DWDM QSFP-DD TRANSCEIVERS

Part number	Protocols	Dist	Wavelengths	Fiber	Conn	Standard / MSA	Pwr budget
TQD011-TUNC-SO	100GE	450km	C-Band	SM	2x LC	OpenZR+	27dB
SO-TQSFP-DD-4CC-ZR	400GE	120km	C-band	SM	2x LC	OIF400ZR	10dB
SO-TQSFPDD4CCZRP	100G-400G	2000km	C-band	SM	2x LC	OIF400ZR/OpenZR+	10dB
TQD013-TUNC-SO	100G-400G	2000km	C-band	SM	2x LC	OIF400ZR/OpenZR+	20dB

AOC QSFP-DD CABLE ASSEMBLIES

Part number	Protocols	Dist	Wavelengths	Fiber	Conn	Standard / MSA	Pwr budget
SO-QSFPDD-AOC0xM	400GE	1m-30m	-	MM	2x QSFP-DD	400G-SR8 /CMIS3.0	-
SO-QSFPDD-AOC0xM-4	400GE	1m-30m	-	MM	2x QSFP-DD	400G-SR8 /CMIS4.0	-
AQD003-xxxC-SO	4x100G	1m-30m	-	MM	QSFP-DD – 4x QSFP56	4x100G-SR2 / CMIS4.0 – SFF8636	-

AEC QSFP-DD CABLE ASSEMBLIES

Part number	Protocols	Dist	Wavelengths	Fiber	Conn	Standard / MSA	Pwr budget
SO-QDD-4C-CUx-4	400GE	0.5m-5m	-	-	2x QSFP-DD	CMIS4.0	-