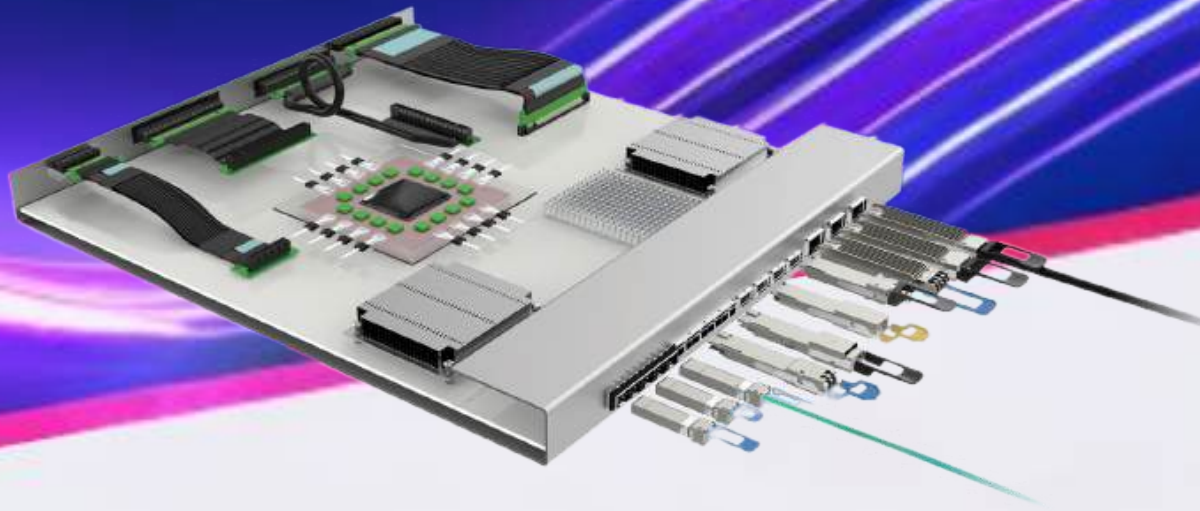




ACTIVE COPPER & OPTICAL CONNECTIVITY

From the 1st mm to 10km And Beyond



400G 800G 1.6G PCIE Gen5/6

Optical Transceiver

Form Factor	PN	Data Rate (Gbps)	Product Description	Tx	Rx	Transmitter		Receiver *Power (dBm)		Reach	Temperature (°C)	Max Power Consumption (W)	Phase
						Min	Max	Min	Max				
OSFP-XD	CTOD8S16CS1-01	16T	SR16 LPO	850nm VCSEL	PIN	-4.6	4	-6.4	4	50m	0-70°C	10	Beta
OSFP1600	CTOD8DR8CS1-01	16T	DR8	1310nm EML	PIN	-2.9	4	-5.9	4	500m	0-70°C	30	RM
OSFP1600	CTOD8DR8CS2-01	16T	DR8 LRO	1310nm EML	PIN	-2.9	4	-5.9	4	500m	0-70°C	25	RM
OSFP1600	CTOD8DR8CS3-01	16T	DR8 LPO	1310nm EML	PIN	-2.9	4	-5.9	4	500m	0-70°C	10	RM
OSFP1600	CTOD82F4CS1-01	16T	2xFR4	1271-1331nm EML	PIN	-3.2	4.4	-7.2	4.4	2km	0-70°C	30	RM
OSFP800	CTO8XDR8CS1-01	800G	DR8	1310nm EML	PIN	-2.9	4	-5.9	4	500m	0-70°C	14	Alpha
OSFP800	CTO8XDR8CS2-01	800G	DR8	1310nm SiPh	PIN	-2.9	4	-5.9	4	500m	0-70°C	14	RM
OSFP800	CTO8XDR8CS3-01	800G	DR8 LPO	1310nm SiPh	PIN	-2.9	4	-5.9	4	500m	0-70°C	9	Beta
OSFP800	CTO8X2F4CS1-01	800G	2xFR4	1271-1331nm EML	PIN	-3.2	4.4	-7.2	4.4	2km	0-70°C	16	Beta
OSFP800	CTO8X2F4CS2-01	800G	2xFR4	1271-1331nm EML	PIN	-3.2	4.4	-7.2	4.4	2km	0-70°C	14	Alpha
OSFP800	CTO8X2L4CS1-01	800G	2xLR4	1271-1331nm EML	PIN	-2.7	5.1	-9	5.1	10km	0-70°C	16	Beta
OSFP800	CTO8X2L4CS2-01	800G	2xLR4	1271-1331nm EML	PIN	-2.7	5.1	-9	5.1	10km	0-70°C	14	Alpha
OSFP800	CTO8X2S4CS1-01	800G	OSFP 800G SR8	850nm VCSEL	PIN	-4.6	4	-6.4	4	100m	0-70°C	14	GA
OSFP800	CTO8X2S4CS1-01	800G	OSFP 800G 2xSR4	850nm VCSEL	PIN	-4.6	4	-6.4	4	100m	0-70°C	14	GA
OSFP800	CLO8X2S4CS2-01	800G	SR8 LPO	850nm VCSEL	PIN	-4.6	4	-6.4	4	50m	0-70°C	4.5	Beta
QSFP-DD800	CTF8XDR8CS1-01	800G	DR8	1310nm EML	PIN	-2.9	4	-5.9	4	500m	0-70°C	14.5	Beta
QSFP-DD800	CTF8X2F4CS1-01	800G	2xFR4	1271-1331nm EML	PIN	-3.2	4.4	-7.2	4.4	2km	0-70°C	14.5	Belta
QSFP-DD800	CTF8X2L4CS1-01	800G	2xLR4	1271-1331nm EML	PIN	-2.7	5.1	-9	5.1	10km	0-70°C	14.5	Belta
QSFP-DD800	CTF8XSR8CS1-01	800G	SR8	850nm VCSEL	PIN	-4.6	4	-6.4	4	100m	0-70°C	14	GA
QSFP-DD800	CLF8XSR8CS1-01	800G	SR8 LPO	850nm VCSEL	PIN	-4.6	4	-6.4	4	50m	0-70°C	4.5	Beta
QSFP112	CTF4XSR4CS1-01	400G	SR4	850nm VCSEL	PIN	-4.6	4	-6.4	4	100m	0-70°C	7.5	GA
QSFP112	CTF4XDR4CS1-01	400G	DR4	1310 EML	PIN	-2.9	4	-5.9	4	500m	0-70°C	10	GA
QSFP112	CTF4XDR4CS2-01	400G	DR4	1310 EML	PIN	-2.9	4	-5.9	4	500m	0-70°C	8	Alpha
QSFP112	CTF4XDR4CS3-01	400G	DR4	SiPh	PIN	-2.9	4	-5.9	4	500m	0-70°C	8	Alpha
QSFP112	CTF4XD4PCS1-01	400G	DR4+	1310 EML	PIN	-3.2	4.4	-7.2	4.4	2km	0-70°C	10	GA
QSFP112	CTF4XD4PCS2-01	400G	DR4+	1310 EML	PIN	-3.2	4.4	-7.2	4.4	2km	0-70°C	8	Alpha
QSFP112	CTF4XD4PCS3-01	400G	DR4+	SiPh	PIN	-3.2	4.4	-7.2	4.4	2km	0-70°C	8	Alpha
QSFP112	CTF4XD4DCS1-01	400G	DR4++	1310 EML	PIN	-2.7	5.1	-9	5.1	10km	0-70°C	10	GA
QSFP112	CTF4XD4DCS2-01	400G	DR4++	1310 EML	PIN	-2.7	5.1	-9	5.1	10km	0-70°C	8	Alpha
QSFP112	CTF4XD4DCS3-01	400G	DR4++	SiPh	PIN	-2.7	5.1	-9	5.1	10km	0-70°C	8	Alpha
QSFP112	CTF4XDR4CS4-01	400G	DR4 LPO	SiPh	PIN	-2.9	4	-5.9	4	500m	0-70°C	4.5	Beta
QSFP112	CTF4XFR4CS1-01	400G	FR4	1271-1331nm EML	PIN	-3.2	4.4	-7.2	4.4	2km	0-70°C	10	GA
QSFP112	CTF4XFR4CS2-01	400G	FR4	1271-1331nm EML	PIN	-3.2	4.4	-7.2	4.4	2km	0-70°C	8	Alpha
QSFP112	CTF4XLR4CS1-01	400G	LR4	1271-1331nm EML	PIN	-2.7	5.1	-9	5.1	10km	0-70°C	10	GA
QSFP112	CTF4XLR4CS2-01	400G	LR4	1271-1331nm EML	PIN	-2.7	5.1	-9	5.1	10km	0-70°C	8	Alpha
QSFP112	CLF4XSR4CS1-01	400G	SR4 LPO	850nm VCSEL	PIN	-4.6	4	-6.4	4	50m	0-70°C	2.5	GA
OSFP	CTO4XSR4CS1-01	400G	OSFP SR4	850nm VCSEL	PIN	-4.6	4	-6.4	4	100m	0-70°C	8	GA
QSFP-DD	CTD4X8S4CS1-01	400G	SR4	850nm VCSEL	PIN	-4.6	4	-6.4	4	100m	0-70°C	8	GA
QSFP-DD	CTD4XSR8CS1-01	400G	SR8	850nm VCSEL	PIN	-6.5	4	-8.4	4	100m	0-70°C	8	GA

Form Factor*	PN	Data Rate (Gbps)	Product Description	Tx	Rx	Transmitter		Receiver *Power (dBm)		Reach	Temperature (°C)	Max Power Consumption (W)	Phase
						Min	Max	Min	Max				
QSFP-DD	CTD4XDR4CS1-01	400G	DR4	1310 EML	PIN	-2.9	4	-5.9	4	500m	0-70°C	10	GA
QSFP-DD	CTD4XDR4CS2-01	400G	DR4	1310 EML	PIN	-2.9	4	-5.9	4	500m	0-70°C	7	Alpha
QSFP-DD	CTD4XD4PCS1-01	400G	DR4+	1310 EML	PIN	-3.2	4.4	-7.2	4.4	2km	0-70°C	10	GA
QSFP-DD	CTD4XD4PCS2-01	400G	DR4+	1310 EML	PIN	-3.2	4.4	-7.2	4.4	2km	0-70°C	7	Alpha
QSFP-DD	CTD4XD4DCS1-01	400G	DR4++	1310 EML	PIN	-2.7	5.1	-9	5.1	10km	0-70°C	10	GA
QSFP-DD	CTD4XD4DCS2-01	400G	DR4++	1310 EML	PIN	-2.7	5.1	-9	5.1	10km	0-70°C	7	Alpha
QSFP-DD	CTD4XFR4CS1-01	400G	FR4	1271-1331nm EML	PIN	-3.2	4.4	-7.2	4.4	2km	0-70°C	10	GA
QSFP-DD	CTD4XFR4CS2-01	400G	FR4	1271-1331nm EML	PIN	-3.2	4.4	-7.2	4.4	2km	0-70°C	7	Alpha
QSFP-DD	CTD4XLR4CS1-01	400G	LR4	1271-1331nm EML	PIN	-2.7	5.1	-9	5.1	10km	0-70°C	10	GA
QSFP-DD	CTD4XLR4CS2-01	400G	LR4	1271-1331nm EML	PIN	-2.7	5.1	-9	5.1	10km	0-70°C	7	Alpha
QSFP-DD	CTQ2XSR8CS1-01	200G	SR8	850nm VCSEL	PIN	-8.4	2.4	-10.3	2.4	100m	0-70°C	4	GA
QSFP-DD	CTQ4X0ZRC1-01	400G	ZR/ZR+	Tunable LD		-10	-6	-12	0	80km	0-70°C	21.5	GA
QSFP56	CTD2XSR4CS1-01	200G	SR4	850nm VCSEL	PIN	-6.5	4	-8.4	4	100m	0-70°C	4	GA
QSFP56	CTD2XFR4CS1-01	200G	FR4	1271-1331nm CWDM DFB	PIN	-3.2	4.7	-8.2	4.7	2km	0-70°C	6	GA
QSFP28	CTQ1XSR4CS1-01	100G	SR4	850nm VCSEL	PIN	-8.4	2.4	-10.3	2.4	100m	0-70°C	2.5	GA
QSFP28	CTQ1XSW4CS1-01	100G	CWDM4	850nm-940nm VCSEL	PIN	-5.5	3	-9.4	3.4	100m	0-70°C	3.5	GA
QSFP28	CTQ1XESRC81-01	100G	eSR4	850nm VCSEL	PIN	-8.4	2.4	-10.3	2.4	300m	0-70°C	2.5	GA
QSFP28	CTQXCWDM4Lite01-01	100G	CWDM4 Light	1271-1331nm CWDM DFB	PIN	-6.5	2.5	-11.5	2.5	500m	0-70°C	3.5	GA
QSFP28	100Q020CWDM4 03H	100G	QSFP28 CWDM4	1271-1331nm CWDM DFB	PIN	-6.5	2.5	-11.5	2.5	2km	0-70°C	3.5	GA
QSFP28	CTQIXCR4CS1-01	100G	CLR4	1271-1331nm CWDM DFB	PIN	-6.5	2.5	-10.5	2.5	2km	0-70°C	3.5	GA
QSFP28	CTQIXCWDM-01	100G	eCWDM4	1271-1331nm CWDM DFB	PIN	-6.5	2.5	-13	2.5	10km	0-70°C	3.5	GA
QSFP28	CTQIX0BDI12-01	100G	1270/1330 Bidi	1271nm CWDM DFB	PIN	-5	2.5	-13.3	2	40km	-20-85°C	3.5	GA
QSFP28	CTQIX1BDI12-01	100G	1330/1270 Bidi	1330nm CWDM DFB	PIN	-5	2.5	-13.3	2	40km	-20-85°C	3.5	GA
QSFP28	CTQIXLR4CS1-01	100G	LR4	1294-1310nm LWDM DFB	PIN	-4.3	4.5	-10.6	4.5	10km	0-70°C	4	GA
QSFP28	CTQIXDR1CS1-01	100G	DR1	1310nm EML	PIN	-2.9	4	-5.9	4	500m	0-70°C	3	GA
QSFP28	CTQIXFR1CS1-01	100G	FR1	1310nm EML	PIN	-2.4	4.5	-6.4	4.5	2km	0-70°C	3	GA
QSFP28	CTQIXER4CS1-01	100G	ER4	1294-1310nm EML	APD	-2.9	2.9	-23	3.5	40km	0-70°C	5	GA
QSFP28	CTQIXZR4CS1-01	100G	ZR4	1294-1310nm EML	SOA+PIN	3	7	-31	4.5	80km	0-70°C	6.5	GA
QSFP+	CTQ40SR4CS1-01	40G	QSFP+ SR4	850nm VCSEL	PIN	-7.5	2.4	-9.5	2.4	100m	0-70°C	1.5	GA
QSFP+	CTQ40SW4CS1-01	40G	QSFP+ SWDM4	850nm-940nm VCSEL	PIN	-5.5	3	-9.1	3	240m	0-70°C	3.5	GA
QSFP+	CTQ40L4LCS1-01	40G	QSFP+ LR4 Lite	1271-1331nm CWDM DFB	PIN	-7	2.3	-12.7	2.3	2km	0-70°C	3.5	GA
QSFP+	CTQ40LR4CS1-01	40G	QSFP+ LR4	1271-1331nm CWDM DFB	PIN	-7	2.3	-13.7	2.3	10km	0-70°C	3.5	GA
SFP28/SFP+	CTS250SRCS1-01	25G	SFP28 SR	850nm VCSEL	PIN	-5	2.4	-10.3	2.4	100m	0-70°C	1	GA
SFP28/SFP+	CTS100SRCS1-01	10G	SFP+ SR	850nm VCSEL	PIN	-6.5	1	-11.1	2.4	300m	0-70°C	1	GA
SFP28/SFP+	CTS250LRCS1-01	25G	SFP28 LR	1310nm DFB	PIN	-7	2	-13.3	2	10km	0-70°C	1	GA
SFP28/SFP+	CTS100LRIS1-01	10G	SFP+ LR	1310nm DFB	PIN	-7	0	-14.5	0	10km	-40-85°C	1	GA
SFP28/SFP+	CTS100ERCS1-01	10G	SFP+ ER	1550nm EML	PIN	-3	3	-	-15.8	40km	0-70°C	1.5	GA
SFP28/SFP+	CTS100ZRC1-01	10G	SFP+ ZR	1550nm EML	APD	0	4	-	-24	80km	0-70°C	1.8	GA
SFP28/SFP+	CTS100ZRC1-01	10G	ZR	Tunable LD	APD	-1	3	-7	-21	80km	-5-70C	2	Belta
SFP28/SFP+	CTS250ZRC1-01	25G	ZR	Tunable LD	APD	0	4	-5	-17	15km	-5-70C	2.5	Belta

Direct Attached Cable

End-A	End-B	Model Number	Data Rate	Product Description	Max Reach (m)	Max Power (W)	Status
OSFP224	OSFP224	CDO16XXXXCS1-01	1.6T	1.6T OSFP224 to OSFP224 DAC	1m	0.5W	RM
OSFP112	OSFP112	CDO8XXXXCS1-01	800G	800Gbps OSFP112 to OSFP112 DAC	2m	0.5W	Beta
QSFP-DD112	QSFP-DD112	CDF8XXXXCS1-01	800G	800Gbps QSFP-DD112 to QSFP-DD112 DAC	2m	0.5W	Beta
QSFP112	QSFP112	CDF4XXXXCS1-01	400G	400Gbps QSFP112 to QSFP112 DAC	2m	0.5W	GA
OSFP56	OSFP56	CDO4XXXXCS1-01	400G	400Gbps OSFP56 TO OSFP56 DAC	3m	0.5W	GA
QSFP-DD56	QSFP-DD56	CDD4XXXXCS1-01	400G	400Gbps QSFP-DD56 to QSFP-DD56 DAC	3m	0.5W	GA
QSFP56	QSFP56	CDQ2XXXXCS1-01	200G	200Gbps QSFP56 to QSFP56 DAC	3m	0.5W	GA
SFP-DD56	SFP-DD56	CDS1XXXXCS1-01	100G	100Gbps SFP-DD56 to SFP-DD56 DAC	3m	0.5W	GA
DSFP56	DSFP56	CDE1XXXXCS1-01	100G	100Gbps DSFP56 to DSFP56 DAC	5m	0.5W	GA
QSFP28	QSFP28	CDQ1XXXXCS1-01	100G	100Gbps QSFP28 to QSFP28 DAC	3m	0.5W	GA
SFP56	SFP56	CDS50XXXXCS1-01	56G	56Gbps SFP56 to SFP56 DAC	3m	0.5W	GA
SFP28	SFP28	CDS25XXXXCS1-01	28G	28Gbps SFP28 to SFP28 DAC	5m	0.5W	GA

ACC

End-A	End-B	Model Number	Data Rate	Product Description	Max Reach (m)	Max Power (W)	Status
OSFP112	OSFP112	CBO8XXXXCS1-01	800G	800Gbps OSFP112 to OSFP112 ACC	<5m	1.5W	Beta
QSFP-DD112	QSFP-DD112	CBF8XXXXCS1-01	800G	800Gbps QSFP-DD112 to QSFP-DD112 ACC	<5m	1.5W	Beta
QSFP112	QSFP112	CBF4XXXXCS1-01	400G	400Gbps QSFP112 to QSFP112 ACC	<5m	1.0W	Beta
OSFP224	OSFP224	CBO16XXXXCS1-01	1.6T	1600Gbps OSFP224 to OSFP224 ACC	<1.5m	3.5W	RM

Active Electrical Cable

End-A	End-B	Model Number	Data Rate	Product Description	Max Reach (m)	Max Power (W)	Status
OSFP112	OSFP112	CEF4XXXXCS1-01	400G	400Gbps QSFP112 to QSFP112 Active Electrical Cable	<7m	5W	Alpha
QSFP-DD112	QSFP-DD112	CEF8XXXXCS1-01	800G	800Gbps QSFP-DD112 to QSFP-DD112 Active Electrical Cable	<7m	10W	Alpha
OSFP112	OSFP112	CEO8XXXXCS1-01	800G	800Gbps OSFP112 to OSFP112 Active Electrical Cable	<7m	10W	Alpha
OSFP224	OSFP224	CEO16XXXXCS1-01	1.6T	1600Gbps OSFP224 to OSFP224 Active Electrical Cable	<2.5m	20W	RM

QSFP-DD800



QSFP-800G



- Diverse applications support: 2x400G, 4x200G, 8x100G
- Multi-rate compatible: 25Gbps/Lane, 50Gbps/Lane, 100Gbps/lane
- High-performance: max FEC symbol error < 7

QSFP-DD800



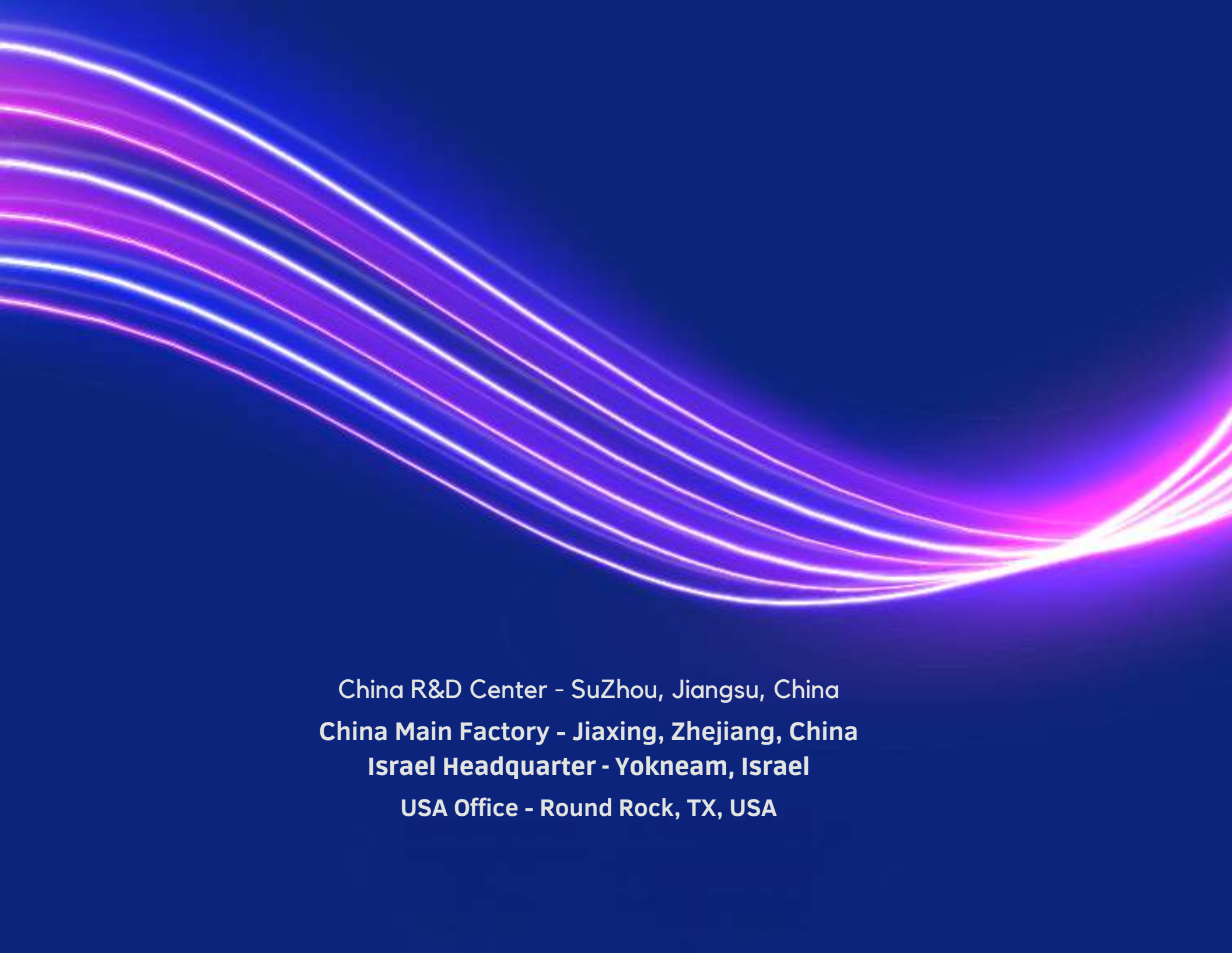
QSFP-800G



- Diverse applications support: 2x400G, 4x200G, 8x100G
- Multi-rate compatible: 25Gbps/Lane, 50Gbps/Lane, 100Gbps/lane
- High-performance: max FEC symbol error < 7; Pre-Fec up to 10E-9

Active Optical Cable

Form Factor	PN	Data Rate	Product Description	Tx	Rx	Max Reach (m)	Temperature (°C)	Max Power (W)	Status
OSFP	CAO8XxxxCS1-01	800G	OSFP SR8 AOC	850nm VCSEL	PIN	100m	0-70	15	GA
QSFP-DD800	CAF8XxxxCS1-01	800G	QSFP-DD 800 AOC	850nm VCSEL	PIN	100m	0-70	14	GA
OSFP	CLO8XxxxCS1-01	800G	OSFP SR8 LPO AOC	850nm VCSEL	PIN	50m	0-70	5.5	GA
QSFP-DD800	CLF8XxxxCS1-01	800G	QSFP-DD 800 LPO AOC	850nm VCSEL	PIN	50m	0-70	5.5	GA
OSFP	CAO8XFxxxCS1-01	800G	OSFP800 to 2*QSFP112 AOC	850nm VCSEL	PIN	100m	0-70	15 (800G end), 8 (400G end)	GA
QSFP-DD800	CAF8XFxxxCS1-01	800G	QSFP-DD 800 to 2*QSFP112 AOC	850nm VCSEL	PIN	100m	0-70	14 (800G end), 9 (400G end)	GA
OSFP	CAO4xxxxCS1-01	400G	OSFP SR4 AOC	850nm VCSEL	PIN	100m	0-70	8	GA
QSFP112	CAF4XxxxCS1-01	400G	QSFP112 SR4 AOC	850nm VCSEL	PIN	100m	0-70	8	GA
QSFP-DD	CAD4XxxxCS1-01	400G	QSFP-DD SR4 AOC	850nm VCSEL	PIN	100m	0-70	8	GA
QSFP112	CLF4XxxxCS1-01	400G	QSFP112 SR4 LPO AOC	850nm VCSEL	PIN	50m	0-70	2.5	GA
OSFP	CAO4XxxxCSD-01	400G	OSFP to QSFP-DD AOC	850nm VCSEL	PIN	100m	0-70	8 (OSFP end), 8 (QSFP-DD end)	GA
QSFP112	CAF4XxxxCSF-01	400G	QSFP112 to QSFP-DD AOC	850nm VCSEL	PIN	100m	0-70	8 (QSFP end), 8 (QSFP-DD end)	GA
QSFP28-DD	CAQ2XxxxCS1-01	200G	QSFP28-DD to QSFP28-DD AOC	850nm VCSEL	PIN	100m	0-70	4	GA
QSFP-DD	CAQ2XFxxCS1-01	200G	QSFP-DD to QSFP-DD 200G AOC	850nm VCSEL	PIN	100m	0-70	4 (200G end), 2 (100G end)	GA
QSFP56	CAD2XxxxCS1-01	200G	QSFP56 to QSFP56 AOC	850nm VCSEL	PIN	100m	0-70	4	GA
QSFP56	CAD2XFxCS1-01	200G	QSFP56 to 2xQSFP56 AOC	850nm VCSEL	PIN	100m	0-70	4 (200G end), 3 (100G end)	GA
QSFP28	CAQ1XxxxCS1-01	100G	QSFP28 AOC	850nm VCSEL	PIN	100m	0-70	2	GA
QSFP28	CAQ1XQxxCS1-01	100G	QSFP28-4xSFP28 AOC	850nm VCSEL	PIN	100m	0-70	2.5 (100G end), 1 (25G end)	GA
QSFP+	CAQ40QxxCS1-01	40G	QSFP+ fanout to 4x SFP+ AOC	850nm VCSEL	PIN	100m	0-70	1.5 (40G end), 0.35 (10G end)	GA
SFP28/SFP+	CAS25xxxCS1-01	25G	SFP28 AOC	850nm VCSEL	PIN	100m	0-70	1	GA
SFP28/SFP+	CAS10xxxCS1-01	10G	SFP+ AOC	850nm VCSEL	PIN	100m	0-70	1	GA



China R&D Center - SuZhou, Jiangsu, China
China Main Factory - Jiaxing, Zhejiang, China
Israel Headquarter - Yokneam, Israel
USA Office - Round Rock, TX, USA