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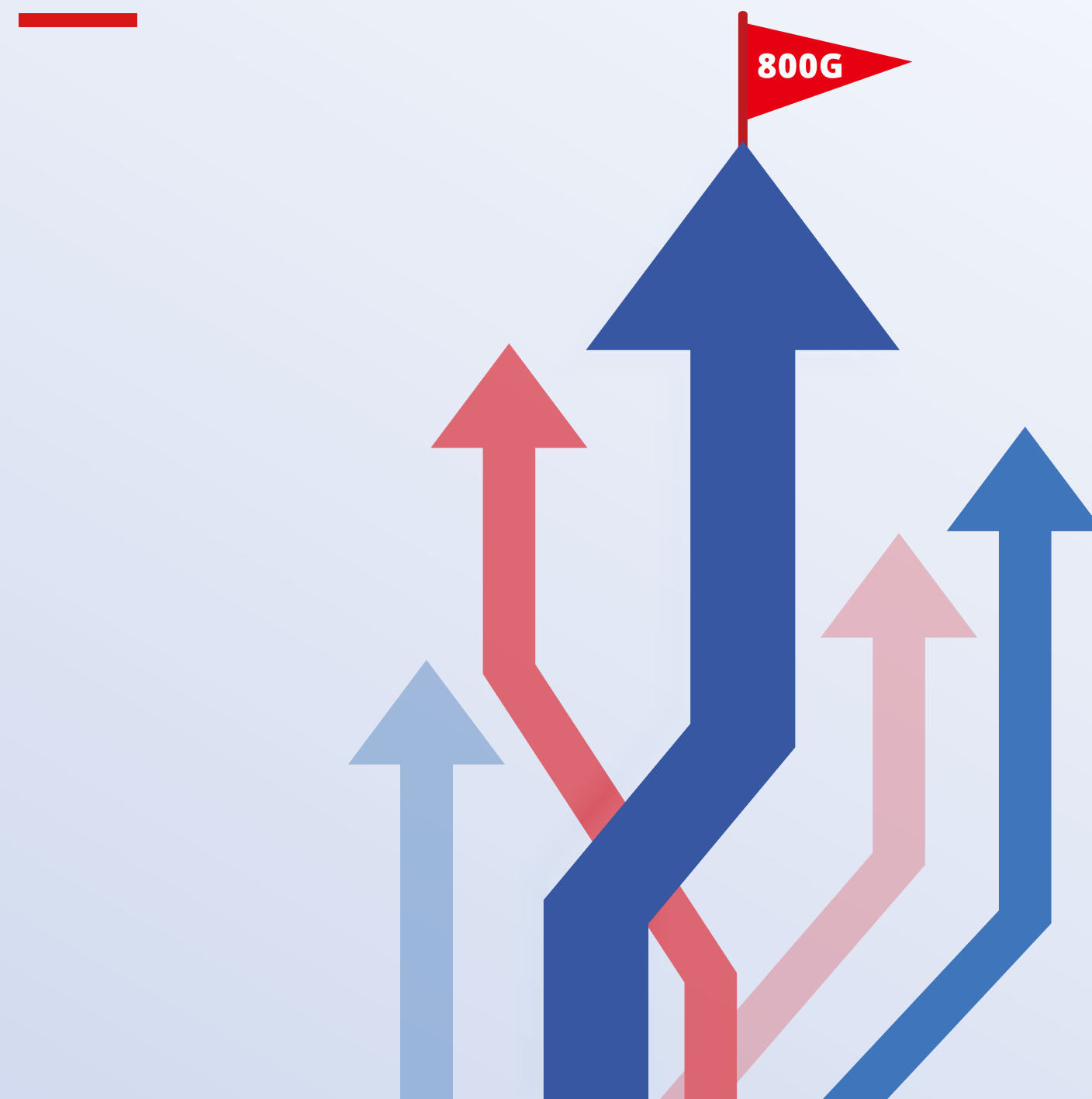
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Open Data Center Interconnect Cables and Optical Transceivers Products and Solutions Brochure



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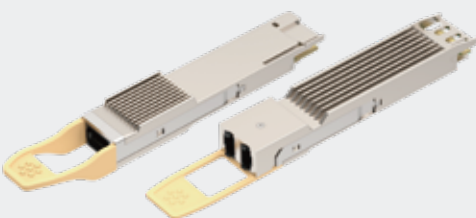
Optical Transceivers

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III-V Optical Transceivers 800G

Features

- 8-channel full-duplex optical transceiver module
- Hot-pluggable QSFP-DD/OSFP MSA-compliant form factor
- Compliant with CMIS, SFF-8636 and SFF-8665
- Data rate up to 850Gbps
- Case operating temperature range from 0 to 70°C
- EEPROM customized with I²C interface
- RoHS compatible (lead free)



Product	LD	Reach	Optical Interface	Case Operating Temperature (°C)	Max. Power Consumption (W)	P/N
800G QSFP-DD SR8	850nm VCSEL	60m (OM3) /100m (OM4)	MP016 2xMP012	0~70	13.5	GQD-MP0801-SR8C
800G OSFP SR8	850nm VCSEL	60m (OM3) /100m (OM4)	MP016 2xMP012	0~70	13.5	GOS-MP0801-SR8C
800G OSFP-RHS SR8	850nm VCSEL	60m (OM3) /100m (OM4)	2xMP012	0~70	13.5	GOS-MP0801-SR8C

III-V Optical Transceivers 400G

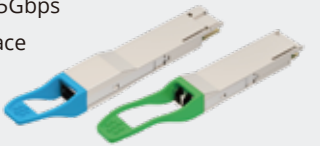
Features

- 4/8-channel full-duplex optical transceiver module
 - Hot-pluggable QSFP-DD/OSFP/QSFP112 MSA-compliant form factor
 - Compliant with CMIS, SFF-8636 and SFF-8665
 - Data rate up to 425Gbps
- Case operating temperature range from 0 to 70°C
 - EEPROM customized with I²C interface
 - RoHS compatible (lead free)
- 

Product	LD	Reach	Optical Interface	Case Operating Temperature (°C)	Max. Power Consumption (W)	P/N
400G QSFP-DD SR8	850nm VCSEL	70m (OM3) /100m (OM4)	MPO16	0~70	8.5	GQD-MPO401-SR8CD
400G QSFP-DD PSM8	1310nm EML	2km/10km	MPO16	20~+60 0~70	11	GDM-SPO401-FR8C GDM-SPO401-LR8C
400G QSFP-DD xPSM8	1310nm EML	20km	MPO16	0~70	11	GDM-SPO401-L28C
400G QSFP-DD FR8	LWDM8 EML	2km	Dual LC	0~70	12.5	GQD-SPO401-FR8C
400G QSFP-DD LR8	LWDM8 EML	10km	Dual LC	0~70	12.5	GQD-SPO401-LR8C
400G QSFP-DD SR4	850nm VCSEL	60m (OM3) /100m (OM4)	MPO12	0~70	8	GQD-MPO401-SR4C
400G QSFP-DD DR4	1310nm EML	500m	MPO12	0~70	10	GQD-SPO401-DR4C
400G QSFP-DD XDR4	1310nm EML	2km	MPO12	0~70	9	GDM-SPO401-XDR4C
400G QSFP-DD PLR4	1310nm EML	10km	MPO12	0~70	10	GQD-SPO401-PLR4C
400G QSFP-DD FR4	CWDM4 DML	2km	Dual LC	0~70	11	GQD-SPO401-FR4X
400G QSFP-DD LR4	CWDM4 DML	10km	Dual LC	0~70	11	GQD-SPO401-LR4X
400G QSFP-DD xLR4	LWDM4 EML	20km	Dual LC	0~70	11	GQD-SPO401-L24X
400G QSFP-DD 2xFR4	CWDM4 DML	2km	Dual Duplex LC	0~70	9	GQD-SPO401-FR4CZ
400G QSFP112 SR4	850nm VCSEL	60m (OM3) /100m (OM4)	MPO12	0~70	8	GQS-MPO401-SR4C
400G QSFP112 FR4	CWDM4 EML	2km	Dual LC	0~70	11	GQS-SPO401-FR4C
400G QSFP112 LR4	CWDM4 EML	10km	Dual LC	0~70	11	GQS-SPO401-LR4C
400G QSFP112 xLR4	LWDM4 EML	20km	Dual LC	0~70	11	GQS-SPO401-L24C
400G OSFP-RHS SR4	850nm VCSEL	60m (OM3) /100m (OM4)	MPO12	0~70	8	GOP-MPO401-SR4C

III-V Optical Transceivers 200G

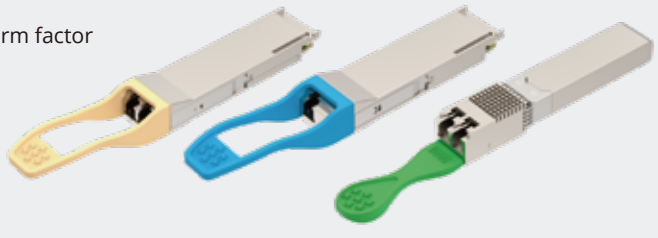
Features

- 4/8-channel full-duplex optical transceiver module
 - Hot-pluggable QSFP56/QSFP-DD MSA-compliant form factor
 - Compliant with CMIS, SFF-8636 and SFF-8665
- Data rate up to 212.5Gbps or 206.25Gbps
 - EEPROM customized with I²C interface
 - RoHS compatible (lead free)
- 

Product	Standard	LD	PD	Reach	Optical Interface	Case Operating Temperature (°C)	Max. Power Consumption (W)	P/N
200G QSFP56 SR4	100GBASE-SR4 200GBASE-SR4	850nm VCSEL	PIN	70m (OM3) 100m (OM4)	MPO12	0~70	5	GQS-MPO201-SR4C
200G QSFP56 DR4	200GBASE-DR4	1310nm DML	PIN	500m	MPO12	0~70	5.5	GQS-SPO201-DR4C
200G QSFP56 FR4	200GBASE-FR4	CWDM4 DML	PIN	2km	Dual LC	0~70	6	GQS-SPO201-FR4CW
200G QSFP56 LR4	200GBASE-CWDM4 200GBASE-LR4	CWDM4 DML LWDM4 DML	PIN	10km	Dual LC	0~70	7.5	GQS-SPO201-LR4C
200G QSFP-DD SR8	100GBASE-SR4	850nm VCSEL	PIN	70m(OM3) 100m(OM4)	MPO24	0~70 -40~+85	4	GQD-MPO201-DSR4C
200G QSFP-DD PSM8	100G-PSM4	1310nm DML	PIN	2km/10km	MPO24	0~70 -40~+85	6 6.5	GDM-SPO201-FR8C GDM-SPO201-LR8C
200G QSFP-DD LR8	200GBASE-LR8	LWDM8 DML	PIN	10km	Dual LC	0~70	7.5	GQD-SPO201-LR8C
200G QSFP-DD PSM4	200G-PSM4	1310nm EML	PIN	2km	MPO12	0~70	5.5	GDM-SPO201-DR4C
200G QSFP-DD FR4	200GBASE-FR4	CWDM EML	PIN	2km	Dual LC	0~70	9	GQD-SPO201-FR4C
200G QSFP-DD eFR4	200GBASE-FR4	CWDM EML	PIN	10km	Dual LC	0~70	9	GQD-SPO201-xR4C
200G QSFP-DD LR4	200GBASE-LR4	LWDM4 EML	PIN	10km	Dual LC	0~70	9	GQD-SPO201-LR4C
200G QSFP-DD ER4	200GBASE-ER4	LWDM4 EML	APD	40km	Dual LC	0~70	9	GQD-SPO201-ER4C
200G QSFP-DD 2xCWDM4	200GBASE-FR4 200GBASE-LR4	2xCWDM4 DML	PIN	2km/10km	Dual Duplex LC	0~70	6.5	GQD-SPO201-CIR4C GQD-SPO201-CLR4C

III-V Optical Transceivers 100G

Features

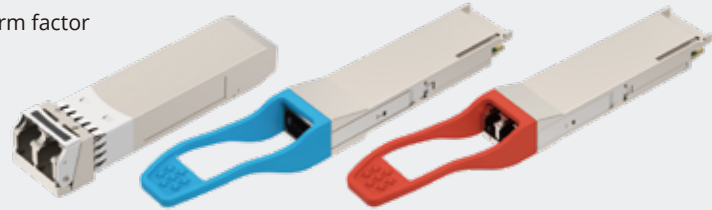
- 1/4-channel full-duplex optical transceiver module
 - Hot-pluggable QSFP28/SFP-DD/SFP112 MSA-compliant form factor
 - Compliant with CMIS, SFF-8636 and SFF-8665
 - Data rate up to 103.125/106.25
 - EEPROM customized with I²C interface
 - RoHS compatible (lead free)
- 

Product	Standard	LD	PD	Reach	Optical Interface	Case Operating Temperature (°C)	Max. Power Consumption (W)	P/N
100G QSFP28 SR4	100GBASE-SR4 EDR	850nm VCSEL	PIN	70m(OM3) 100m(OM4)	MPO12	0~70 -40~+85	2	GQS-MPO101-SR4C GQS-MPO101-SR4T
100G QSFP28 SR4(Dual Rates)	100GBASE-SR4 OTU4	850nm VCSEL	PIN	70m(OM3) 100m(OM4)	MPO12	0~70 -40~+85	2	GQS-MPO111-SR4C GQS-MPO111-SR4T
100G QSFP28 SR4(Rugged)	100GBASE-SR4 EDR	850nm VCSEL	PIN	70m(OM3) 100m(OM4)	MPO12	0~70	2	GQSF-MPO101-SR4C
100G QSFP28 eSR4	100GBASE-SR4 EDR	850nm VCSEL	PIN	70m(OM3) 100m/300m (OM4)	MPO12	0~70 -40~+85	2	GQS-MPO101-eSR4C GQS-MPO101-eSR4T
100G QSFP28 eSR4(Dual Rates)	100GBASE-SR4 OTU4	850nm VCSEL	PIN	70m(OM3) 100m/300m (OM4)	MPO12	0~70 -40~+85	2	GQS-MPO111-eSR4C
100G QSFP28 PSM4	100G-PSM4 EDR	1310nm DML	PIN	2km/10km	MPO12	0~70 -40~+85	3.5	GQM-SPO101-IR4C GQM-SPO101-LR4C GQM-SPO101-LR4T
100G QSFP28 PSM4(Rugged)	100G-PSM4 EDR	1310nm DML	PIN	2km	MPO12	0~70	3.5	GQMF-SPO101-LR4C
100G QSFP28 CWDM4	100G-CWDM4 EDR	CWDM4 DML	PIN	2km/10km	Dual LC	0~70 -40~+85	3.5	GQS-SPO101-CIR4C GQS-SPO101- CLR4C GQS-SPO101- CLR4T
100G QSFP28 CWDM4(Rugged)	100G-CWDM4 EDR	CWDM4 DML	PIN	2km	Dual LC	0~70	3.5	GQSF-SPO101- CLR4C
100G QSFP28 CLR4	100G-CLR4 EDR	CWDM4 DML	PIN	2km/10km	Dual LC	0~70 -40~+85	3.5	GQS-SPO101-CCR4CB GQS-SPO101-CMR4C
100G QSFP28 4WDM-10	100G-4WDM-10 EDR	CWDM4 DML	PIN	10km	Dual LC	0~70 -40~+85	4	GQS-SPO101-4LR4C GQS-SPO101-4LR4T
100G QSFP28 LR4	100GBASE-LR4	LWDM4 DML	PIN	10km/20km	Dual LC	0~70 -40~+85	3.5	GQS-SPO101-LR4C GQS-SPO101-LR4T GQS-SPO101-L24C
100G QSFP28 LR4(Dual Rates)	100GBASE-LR4	LWDM4 DML	PIN	10km/20km	Dual LC	0~70	3.5	GQS-SPO111-LR4C GQS-SPO111-L24C
100G QSFP28 4WDM-40	100G-4WDM-40	LWDM4 DML	APD	40km	Dual LC	0~70 -40~+85	3.8	GQS-SPO101-4ER4C GQS-SPO101-4ER4T
100G QSFP28 ER4 Lite	100GBASE-ER4	LWDM4 DML	APD	40km	Dual LC	0~70	3.8	GQS-SPO101-ES4C
100G QSFP28 ER4 Lite(Dual Rates)	100GBASE-ER4 OTU4	LWDM4 DML	APD	40km	Dual LC	0~70	3.8	GQS-SPO111-ES4C
100G QSFP28 ER4	100GBASE-ER4 OTU4	LWDM4 EML	PIN+SOA	40km	Dual LC	0~70	6	GQS-SPO101-ER4C GQS-SPO111-ER4C
100G QSFP28 eER4	100GBASE-ER4	LWDM4 EML	PIN+SOA	60km	Dual LC	0~70	6	GQS-SPO101-eER4C
100G QSFP28 ZR4	100GBASE-ZR4	LWDM4 EML	PIN+SOA	80km	Dual LC	0~70	6	GQS-SPO101-ZR4C
100G QSFP28 ZR4(Dual Rates)	100GBASE-ZR4 OTU4	LWDM4 EML	PIN+SOA	80km	Dual LC	0~70	6	GQS-SPO111-ZR4C
100G QSFP28 SR1.2	100GBASE-SR1.2	850/900nm BiDi VCSEL	PIN	100m(OM4) 150m(OM5)	Dual LC	0~70	3	GQS-MPO101-SRBDC
100G QSFP28 FR1	100GBASE-FR1	1310nm EML	PIN	2km	Dual LC	0~70	3.5	GQS-SPO101-FR1C
100G QSFP28 LR1	100GBASE-LR1	1310nm EML	PIN	20km	Dual LC	0~70	4	GQS-SPO101-LR1C
100G QSFP28 ER1	100GBASE-ER1	1310nm EML	APD	40km	Dual LC	0~70	4	GQS-SPO101-ER1C
100G QSFP28 BiDi LR1	100G BiDi	1271/1331nm EML	PIN	10km	Simplex LC	0~70	4.5	GBQ-2733101-LR1C GBQ-3327101-LR1C
100G QSFP28 BiDi xLR1	100G BiDi	1291/1311nm EML	PIN	20km	Simplex LC	0~70	4.5	GBQ-2931101-L21C GBQ-3129101-L21C
100G QSFP28 PSM DWDM4	100G PSM4 MSA	C-band 100GHz EML	PIN+EDFA +DCM	80km	MPO	0~70	6	GQS-Cxx101-DZR4
100G SFP56-DD FR1	100GBASE-FR1	1310nm EML	PIN	2km	Dual LC	0~70	3.5	GSD-SPO111-FR1C
100G SFP56-DD LR1	100GBASE-LR1	1310nm EML	PIN	10km/20km	Dual LC	0~70	3.5	GSD-SPO111-LR1C
100G SFP56-DD ER1 Lite	100GBASE-ER1	1310nm EML	PIN	30km	Dual LC	0~70	3.5	GSD-SPO111-ER1C
100G SFP112 SR1	100GBASE-SR1	850nm VCSEL	PIN	100m	Dual LC	0~70	2	GSS-MPO101-SR1C
100G SFP112 LR1	100GBASE-LR1	1310nm EML	PIN	10km	Dual LC	0~70	3.5	GSS-SPO101-LR1C
100G SFP112 ER1	100GBASE-ER1	1310nm EML	APD	40km	Dual LC	0~70	5.5	GSS-SPO101-ER1C

III-V Optical Transceivers 50G/40G/25G

Features

- 1/4-channel full-duplex optical transceiver module
- Hot-pluggable SFP28/SFP56/QSFP+ MSA-compliant form factor
- Compliant with SFF-8402, SFF-8431 and SFF-8432
- Data rate up to 10.3125Gbps~56.25Gbps
- EEPROM customized with I²C interface
- RoHS compatible (lead free)

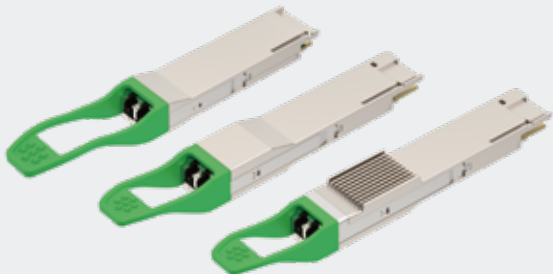


Product	Standard	LD	PD	Reach	Optical Interface	Case Operating Temperature (°C)	Max. Power Consumption (W)	P/N
50G SFP56 SR	50GBASE-SR	850nm VCSEL	PIN	70m(OM3) 100m(OM4)	Dual LC	0~70	2	GSS-MPO560-SRC
50G SFP56 LR	50GBASE-LR	1310nm EML	PIN	10km	Dual LC	0~70 -40~+85	3	GSS-SPO500-LR1C GSS-SPO500-LR1T
50G SFP56 ER	50GBASE-ER	1310nm EML	APD	40km	Dual LC	0~70 -40~+85	3	GSS-SPO500-ER1C GSS-SPO500-ER1T
40G QSFP+ SR4	40GBASE-SR4 QDR	850nm VCSEL	PIN	70m(OM3) 100m(OM4)	MPO12	0~70 -40~+85	1.5	GQS-MPO400-SR4C GQS-MPO400-SR4T
40G QSFP+ eSR4	40GBASE-SR4	850nm VCSEL	PIN	300m (OM3) 400m (OM4)	MPO12	0~70	1.5	GQS-MPO400-SR4CP
40G QSFP+ PSM4	40G-PSM4 QDR	1310nm DML	PIN	2km/10km	MPO12	0~70	3.5	GQM-SPO400-IR4C GQM-SPO400-LR4C
40G QSFP+ LR4	40GBASE-LR4 QDR	CWDM4 DML	PIN	2km/10km	Dual LC	0~70	3.5	GQS-SPO400-IR4C GQS-SPO400-LR4C
40G QSFP+ ER4	40GBASE-ER4	CWDM4 DML	APD	40km	Dual LC	0~70	3.5	GQS-SPO400-ER4C
40G QSFP+ ZR4	40GBASE-ZR4	LWDM4 EML	APD	80km	Dual LC	0~70	6	GQS-SPO401-ZR4C
25G SFP28 SR	25GBASE-SR	850nm VCSEL	PIN	70m(OM3) 100m(OM4)	Dual LC	0~70 -40~+85	1	GSS-MPO250-SRC GSS-MPO250-SRT
25G SFP28 eSR	25GBASE-SR	850nm VCSEL	PIN	70m(OM3) 100m/300m(OM4)	Dual LC	0~70 -40~+85	1	GSS-MPO250-eSRC GSS-MPO250-eSRT
25G SFP28 LR	25GBASE-LR	1310nm DML	PIN	10km/20km	Dual LC	0~70 -40~+85	1.2	GSS-SPO250-LRC/T GSS-SPO250-L2C/T
25G SFP28 ER	25GBASE-ER	1310nm EML	APD	40km	Dual LC	0~70 -40~+85	1.8	GSS-SPO250-ERC/T
25G SFP28 ZR	25GBASE-ZR	1300nm EML	PIN+SOA	80km	Dual LC	0~70	2.5	GSS-SPO250-ZRC

Silicon Photonics Transceivers 100G/400G/800G

Features

- 1/4/8-channel full-duplex optical transceiver module
- Hot-pluggable QSFP/QSFP-DD/OSFP MSA-compliant form factor
- Compliant with CMIS, SFF-8636 and SFF-8665
- Data rate up to 106.25~850Gbps
- Case operating temperature range from 0 to 70°C
- EEPROM customized with I²C interface
- RoHS compatible (lead free)



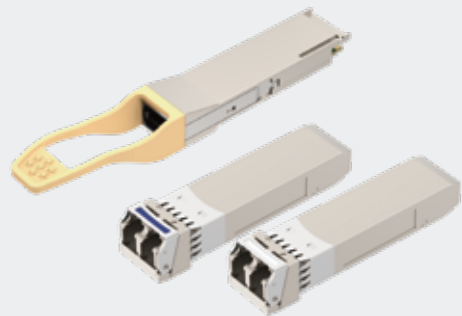
Product	Standard	LD	PD	Reach	Optical Interface	Max. Power Consumption (W)	P/N
100G QSFP28 DR1	100GBASE-DR1	1310nm CW+MZ	PIN	500m	Dual LC	4	GQS-SI101DR1C
100G QSFP28 FR1	100GBASE-FR1	1310nm CW+MZ	PIN	2km	Dual LC	4	GQS-SI101FR1C
100G QSFP28 LR1	100GBASE-LR1	1310nm CW+MZ	PIN	10km	Dual LC	4	GQS-SI101LR1C
100G QSFP28 DWDM1	100GBASE-DWDM	O-BAND CW+MZ	PIN	25km	Dual LC	4	GQS-SI101-DE51C
400G QSFP-DD DR4	400GBASE-DR4	1310nm CW+MZ	PIN	500m	MPO12	10	GQD-SI401DR4C
400G QSFP-DD DR4+	400GBASE-DR4	1310nm CW+MZ	PIN	2km	MPO12	10	GQD-SI401XDR4C
400G QSFP-DD DR4++	400GBASE-DR4	1310nm CW+MZ	PIN	10km	MPO12	10.5	GQD-SI401LDR4C
400G QSFP-DD FR4 [*]	400GBASE-FR4	CWDM4 CW+MZ	PIN	2km	Dual LC	11	GQD-SI401FR4C
400G QSFP-DD LR4 [*]	400GBASE-LR4	CWDM4 CW+MZ	PIN	10km	Dual LC	11	GQD-SI401LR4C
400G QSFP-DD PSM DWDM4	N/A	DWDM4 CW+MZ	PIN	80km (DCM+EDFA)	MPO	12	GQD-Cxx401-DZR4
400G QSFP112 DR4	400GBASE-DR4	1310nm CW+MZ	PIN	500m	MPO12	10	GQS-SI401DR4C
400G QSFP112 DR4+	400GBASE-DR4	1310nm CW+MZ	PIN	2km	MPO12	10	GQS-SI401xR4C
400G QSFP112 DR4++	400GBASE-DR4	1310nm CW+MZ	PIN	10km	MPO12	10.5	GQS-SI401xR4C
400G QSFP112 FR4 [*]	400GBASE-FR4	CWDM4 CW+MZ	PIN	2km	Dual LC	11	GQS-SI401FR4C
400G QSFP112 LR4 [*]	400GBASE-LR4	CWDM4 CW+MZ	PIN	10km	Dual LC	11	GQS-SI401-LR4C
400G QSFP112 DR4 LPO	400GBASE-DR4	1310nm CW+MZ	PIN	500m	MPO12	5	TBD
400G OSFP-RHS DR4	400GBASE-DR4	1310nm CW+MZ	PIN	500m	MPO12	10	GOP-SI401DR4C
400G OSFP-RHS DR4+	400GBASE-DR4	1310nm CW+MZ	PIN	2km	MPO12	10	GOP-SI401xR4C
400G OSFP-RHS DR4++	400GBASE-DR4	1310nm CW+MZ	PIN	10km	MPO12	10.5	GOP-SI401xR4C
800G OSFP DR8	800GBASE-DR8	1310nm CW+MZ	PIN	500m	Dual MPO12	18.5	GQD-SI801DR8C
800G OSFP DR8+	800GBASE-DR8	1310nm CW+MZ	PIN	2km	Dual MPO12	18.5	GOS-SI801DR8C
800G OSFP DR8++	800GBASE-DR8	1310nm CW+MZ	PIN	10km	Dual MPO12	18.5	GOS-SI801xR8C
800G OSFP 2×FR4	800GBASE-FR4	CWDM4 CW+MZ	PIN	2km	Dual LC	18	GOS-SI801CIR4C
800G QSFP-DD DR8	800GBASE-DR8	1310nm CW+MZ	PIN	500m	MPO16	18.5	GQD-SI801DR8C
800G QSFP-DD DR8+	800GBASE-DR8	1310nm CW+MZ	PIN	2km	MPO16	18.5	GQD-SI801XDR8C
800G QSFP-DD DR8++	800GBASE-DR8	1310nm CW+MZ	PIN	10km	MPO16	18.5	GQD-SI801LDR8C
800G QSFP-DD 2×FR4	800GBASE-FR4	CWDM4 CW+MZ	PIN	2km	Dual LC	18	GQD-SI801CIR4C

Note: ^{*} It's preliminary

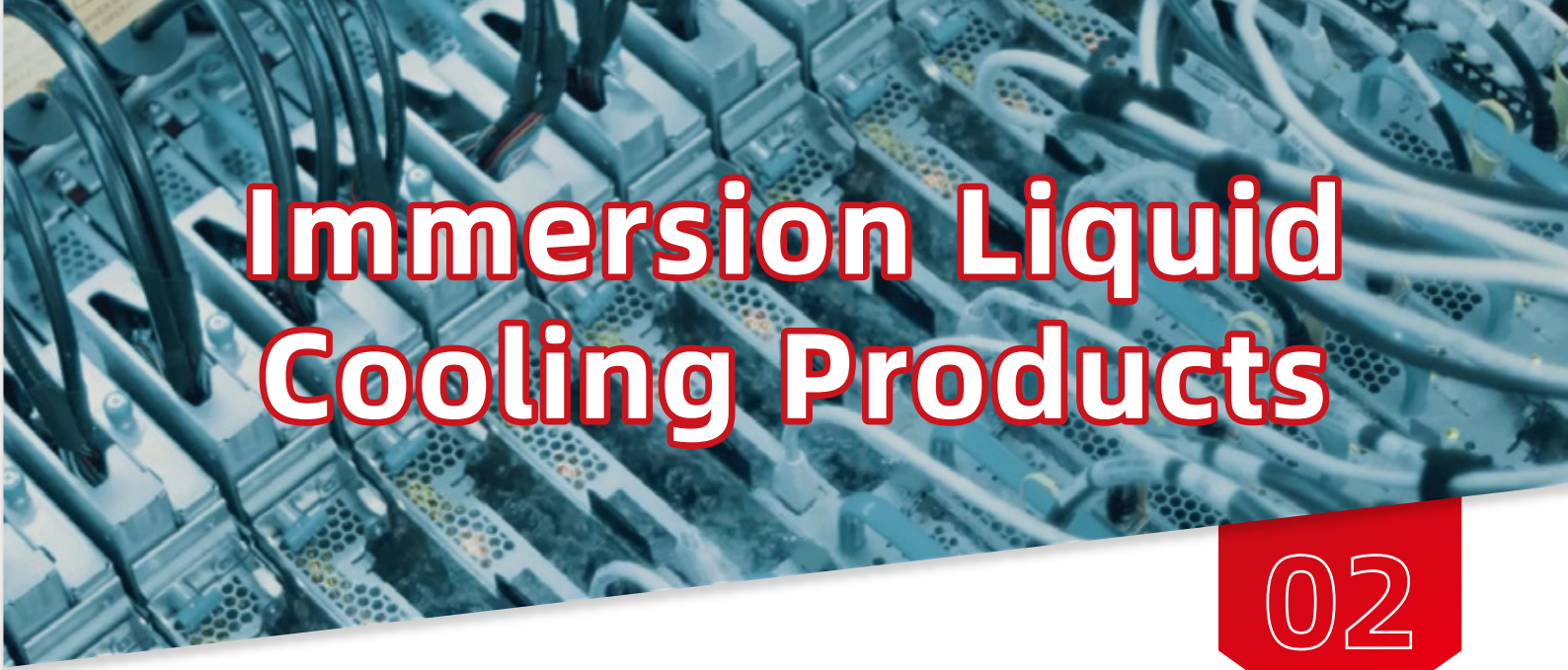
Fiber Channel Optical transceivers

Features

- Enterprise-level DCI optical transceivers based on FC protocol
- Hot-pluggable SFP+/SFP28/QSFP+/QSFP28 form factor
- 1/4-channel full-duplex transceiver modules
- Data rate up to 14.025 to 112.2Gbps
- Comply with 16G/32G/56G/128G fiber channel standard
- Backwards compatible with 2G/4G/8G Fiber Channel standard
- Duplex LC or MPO12 optical port
- Power supply voltage 3.3V
- RoHS compatible (lead free)



Product	Rate	Wavelength	Case Operating Temperature (°C)	Reach	Optical Interface	Max. Power Consumption (W)	P/N
16GFC SFP+ SR	14.025Gbps	850nm	0~70 -40~+85	190mm	Dual LC	1.2	GPP-8514G-SRC
16GFC SFP+ LR	14.025Gbps	1310nm	0~70 -40~+85	10km	Dual LC	1.5	GPP-3114G-LRC
16GFC SFP+ CWDM	14.025Gbps	CWDM	0~70 -40~+85	40km	Dual LC	1.8	GCP-xx14G-04C
16GFC SFP+ DWDM	14.025Gbps	DWDM	0~70 -40~+85	10km	Dual LC	2	GDP-xx14G-01x
16GFC SFP+ DWDM	14.025Gbps	DWDM	0~70 -40~+85	40km	Dual LC	2	GDP-Dxx14G-04x
32GFC SFP28 SR	28.05Gbps	850nm	0~70 -40~+85	70m (OM3) 100m (OM4)	Dual LC	1	GSS-MPO280-SRC GSS-MPO280-SRT
32GFC SFP28 eSR	28.05Gbps	850nm	0~70 -40~+85	200m (OM3) 300m (OM4)	Dual LC	1	GSS-MPO280-eSRC GSS-MPO280-eSRT
32GFC SFP28 LR	28.05Gbps	1310nm	0~70	25km	Dual LC	1.8	GSS-SPO280-L2C
32GFC SFP28 DWDM	28.05Gbps	DWDM	0~70 -40~+85	10km	Dual LC	1.8	GSS-Dxx280-LRT
56G QSFP+ SR4	56.25Gbps	850nm	0~70	100m (OM3) 150m (OM4)	MPO12	1.5	GQS-MPO560-SR4C
128GFC QSFP28 SR4	112.2Gbps	850nm	0~70 -40~+85	70m (OM3) 100m (OM4)	MPO12	2	GQS-MPO1111-SR4C GQS-MPO1111-SR4T



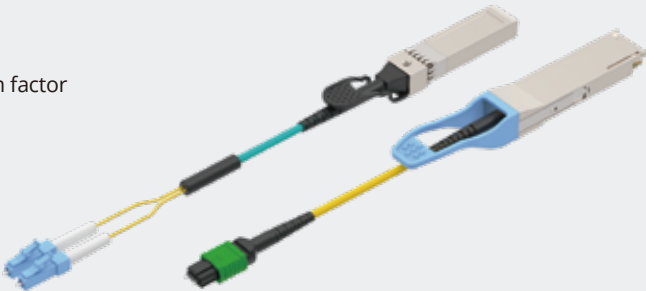
Immersion Liquid Cooling Products

02

Immersion Liquid Cooling Optical Transceivers

Features

- Submersible version transceiver module & AOC
- Hot-pluggable SFP/QSFP/QSFP-DD/OSFP MSA-compliant form factor
- Compliant with CMIS, SFF-8636 and SFF-8665
- Data rate up to 10.3125Gbps-850Gbps
- Case operating temperature range from 0 to 60°C
- EEPROM customized with I²C interface
- RoHS compatible (lead free)



Product	Standard	LD	PD	Reach	Optical Interface	Case Operating Temperature (°C)	Max. Power Consumption (W)	P/N
10G SFP+ SR	10GBASE-SR	850nm VCSEL	PIN	300m(OM3) 400m(OM4)	LC Pigtail FC Pigtail	0~60	0.8	GL-S100-SR-L/F
10G SFP+ LR	10GBASE-LR	1310nm DML	PIN	10km	LC Pigtail FC Pigtail	0~60	0.8	GL-S100-LR-L/F
10G SFP+ BiDi LR	10GBASE	1270nm/ 1310nm DML	PIN	10km	LC Pigtail FC Pigtail	0~60	1.5	GL-S100-23LR-L/F GL-S100-32LR-L/F
25G SFP28 SR	25GBASE-SR	850nm VCSEL	PIN	70m(OM3) 100m(OM4)	LC Pigtail FC Pigtail	0~60	1	GL-S250-SR-L/F
25G SFP28 LR	25GBASE-LR	1310nm DML	PIN	10km(SMF)	LC Pigtail FC Pigtail	0~60	1.5	GL-S250-LR-L/F
25G SFP28 BiDi LR	25GBASE-BX10-D 25GBASE-BX10-U	1270nm/ 1310nm DML	PIN	10km	LC Pigtail FC Pigtail	0~60	1.6	GL-S250-23LR-L/F GL-S250-32LR-L/F
40G QSFP+ SR4	40GBASE-SR4	850nm VCSEL	PIN	70m(OM3) 100m(OM4)	MPO12 Pigtail	0~60	1.5	GL-Q400-SR4-M
100G QSFP28 SR4	100GBASE-SR4 EDR	850nm VCSEL	PIN	70m(OM3) 100m(OM4)	MPO12 Pigtail	0~60	2	GL-Q101-SR4-M
100G QSFP28 PSM4	100G-PSM4 EDR	1310nm DML	PIN	2km	MPO12 Pigtail	0~60	4.5	GL-P101-IR4-M
200G QSFP56 SR4	100GBASE-SR4 200GBASE-SR4	850nm VCSEL	PIN	70m (OM3) 100m (OM4)	MPO12 Pigtail	0~60	5	GL-Q201-SR4-M
400G OSFP-RHS SR4	400GBASE-SR4	850nm	PIN	100m	MPO12 Pigtail	0~60	8	GL-Q401-SR4-M
400G QSFP-RHS DR4 SiPh	400GBASE-DR4	1310nm	PIN	500m	MPO12 Pigtail	0~60	10	GL-Q401-DR4-M
400G QSFP112 SR4	400GBASE-SR4	850nm	PIN	100m	MPO12 Pigtail	0~60	8	GL-Q401-SR4-M
400G QSFP112 DR4 SiPh	400GBASE-DR4	1310nm	PIN	500m	MPO12 Pigtail	0~60	10	GL-Q401-DR4-M
800G QSFP-DD SR8	800GBASE-SR8	850nm VCSEL	PIN	100m	MPO16 Pigtail Dual MPO12 Pigtail	0~60	18.5	GL-D801-SR8-M
800G OSFP SR8	800GBASE-SR8	850nm VCSEL	PIN	100m	MPO16 Pigtail Dual MPO12 Pigtail	0~60	18.5	GL-O801-SR8-M

Immersion Liquid Cooling AOC

Features

- Submersible version AOC
- Hot-pluggable SFP/QSFP28/QSFP56 MSA-compliant form factor Compliant with CMIS,
- SFF-8636 and SFF-8665
- Data rate up to 10.31-212.5Gbps
- Case operating temperature range from 0 to 60 °C



Product	Standard	LD	PD	Reach	Max. Power Consumption (W)
10G SFP+ AOC	10GBase-SR	850nm VCSEL	PIN	1-100m/400m	0.8
25G SFP28 AOC	25GBase-SR	850nm VCSEL	PIN	1-100m	1
40GQSFP+ AOC	40GBase-SR4	850nm VCSEL	PIN	1-300m/400m	1.5
100G QSFP28 AOC	100GBase-SR4	850nm VCSEL	PIN	1-100m/300m	2
100G QSFP28 to 2/4× Breakout AOC	100GBase-SR4	850nm VCSEL	PIN	1-100m/300m	2/1.5/1
200G QSFP-DD AOC	100GBase-SR4	850nm VCSEL	PIN	1-100m	4
200G QSFP-DD to 2/4/8× Breakout AOC	100GBase-SR4	850nm VCSEL	PIN	1-100m	4/2/1.5/1
200G QSFP56 AOC	100G/200GBase-SR4	850nm VCSEL	PIN	1-100m	5
200G QSFP56 2/4× Breakout AOC	100G/200GBase-SR4	850nm VCSEL	PIN	1-100m	5/4.5/2
400G QSFP-DD AOC	400GBase-SR8/200GBase-SR4	850nm VCSEL	PIN	1-100m	9
400G QSFP-DD to 2/4/8× Breakout AOC	400GBase-SR8/200GBase-SR4	850nm VCSEL	PIN	1-100m	9/5/4.5/2
400G OSFP-RHS AOC	400GBase-SR8	850nm VCSEL	PIN	1-100m	10
400G OSFP-RHS to 2/4/8× Breakout AOC	400GBase-SR8	850nm VCSEL	PIN	1-100m	10/5/4.5/2
400G QSFP112 AOC	400GBase-SR4	850nm VCSEL	PIN	1-100m	10
400G QSFP112 to 2/4/8× Breakout AOC	400GBase-SR4	850nm VCSEL	PIN	1-100m	10/5/4.5/2
800G QSFP-DD AOC	800GBase-SR8	850nm VCSEL	PIN	1-100m	15
800G QSFP-DD to 2/4/8× Breakout AOC	800GBase-SR8	850nm VCSEL	PIN	1-100m	15/10/5/4.5
800G OSFP AOC	800GBase-SR8	850nm VCSEL	PIN	1-100m	15
800G OSFP to 2/4/8× Breakout AOC	800GBase-SR8	850nm VCSEL	PIN	1-100m	15/10/5/4.5

Immersion Liquid Cooling DAC

Features

- Special design for liquid immersion environment
- Data rate up to 10.31-212.2Gbps
- Compatible to SFP28/QSFP28/QSFP56/QSFP-DD/OSFP MSA
- Copper link length up to 7m
- Operating Temperature: 0~ 70°C



Product	Rate	Reach	P/N
10G SFP+ DAC	10.52Gbps	7m	GLS-PC100-XXC
25G SFP28 DAC	25.78125Gbps	5m	GLS-PC250-XXC
40G QSFP+ DAC	41.25Gbps	5m	GLQ-PC400-XXC
100G QSFP28 DAC	103.12Gbps	5m	GLQ-PC101-XXC
200G QSFP56 DAC	212.5Gbps	3m	GLQ-PC201-XXC
200G QSFP-DD DAC	206.25Gbps	3m	GLD-PC201-XXC
400G QSFP-DD DAC	425Gbps	3m	GLD-PC401-XXC
400G OSFP-RHS DAC	425Gbps	3m	GLO-PC401-XXC
400G QSFP112 DAC	425Gbps	3m	GLQ-PC401-XXC
800G QSFP-DD DAC	850Gbps	2m	GLD-PC801-XXC
800G OSFP DAC	850Gbps	2m	GLO-PC801-XXC

Immersion Cooling Extender

Features

- Significant CAPEX savings for immersion liquid-cooling data centers
- 30AWG twinax copper cable with length up to 50cm
- Simple deployment and fast connection
- Ultra-high reliability with simple structure
- Commercial case temperature range of 0°C to 60°C



Product	Encapsulation	AWG	Reach	Case Operating Temperature (°C)	P/N
40G QSFP+ Immersion Cooling Extender	QSFP+ to QSFP+Flat Cage	30AWG	50cm	0~70	GLQE-PC400-DXX
100G QSFP28 Immersion Cooling Extender	QSFP28 to QSFP28 Flat Cage	30AWG	50cm	0~70	GLQE-PC101-DXX
200G QSFP56 Immersion Cooling Extender	QSFP56 to QSFP56 Flat Cage	30AWG	50cm	0~70	GLQE-PC201-DXX
200G QSFP-DD Immersion Cooling Extender	QSFP-DD to QSFP-DD Flat Cage	30AWG	50cm	0~70	GLQD-PC201-DXX
400G QSFP-DD Immersion Cooling Extender	QSFP-DD to QSFP-DD Flat Cage	30AWG	50cm	0~70	GLQD-PC401-DXX
800G QSFP-DD Immersion Cooling Extender	QSFP-DD to QSFP-DD Flat Cage	30AWG	50cm	0~70	GLQD-PC801-DXX

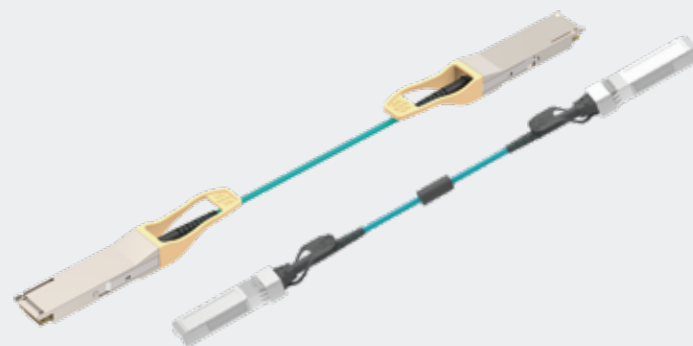
Active Optical Cables AOC

03

AOC 10G/25G/40G/50G/56G

Features

- Single-channel full-duplex active optical cable
- 850nm VCSEL transmitter and PIN receiver
- Hot-pluggable SFP MSA-compliant connectors
- Compliant with SFF-8402, SFF-8431 and SFF-8432
- OM2, OM3 or OM4 MMF optional
- EEPROM customized with I²C interface
- RoHS compatible (lead free)



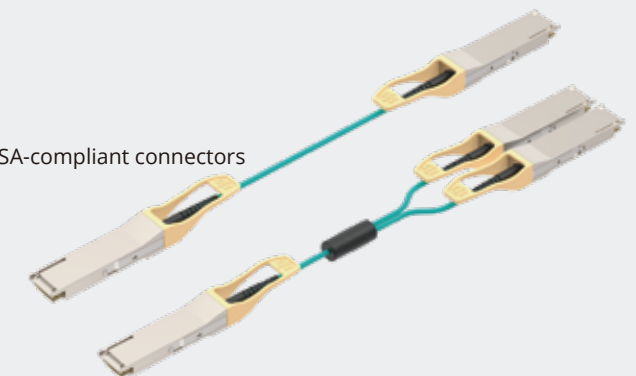
Product	Rate	Reach	Max. Power Consumption (W)	P/N
10G SFP+ AOC	10.3125Gbps	300m (OM3)	1	GSS-MDO100-xxxC
25G SFP28 AOC	25.78125Gbps	70m (OM3) or 100m (OM4)	1	GSS-MDO250-xxxC
25G SFP28 AOC (Enhanced)	25.78125Gbps	200m (OM3) or 300m (OM4)	1	GSS-MDO250-exxxC
32GFC SFP28 AOC	28.05Gbps	70m (OM3) or 100m (OM4)	1	GSS-MDO280-xxxC
32GFC SFP28 AOC (Enhanced)	28.05Gbps	200m (OM3) or 300m (OM4)	1	GSS-MDO280-exxxC
40G QSFP+ AOC	41.25Gbps	300m (OM3) or 400m (OM4)	1.5	GQS-MDO400-xxxC
40G QSFP+ to 4x 10G SFP+ AOC	41.25Gbps	100m (OM3)	1.5(40G)/1(10G)	GQP-MDO400-xxxC
50G SFP56 AOC	53.125Gbps	70m (OM3) or 100m (OM4/OM5)	2	GSS-MDO280-exxxC
56G QSFP+ AOC	56.25Gbps	100m (OM3) or 150m (OM4)	1.5	GQS-MDO560-xxxC
56G QSFP28 AOC	56.1Gbps	70m (OM3) or 100m (OM4)	1.5	GQQ-MDO560-xxxC

Note: The "xxx" in the P/N means the Length, e.g., 001 means 1 meter, 002 means 2 meters, 010 means 10 meters, 100 means 100 meters, etc.

AOC 100G/128G/120G/200G

Features

- 1/4/8/12-channel full-duplex active optical cable
- 850nm VCSEL transmitter and PIN receiver
- Hot-pluggable QSFP28/CXP/SFP-DD/SFP112/QSFP56/QSFP-DD MSA-compliant connectors
- Compliant with CMIS, SFF-8636 and SFF-8665
- OM3, OM4 or OM5 MMF optional
- EEPROM customized with I²C interface
- RoHS compatible (lead free)



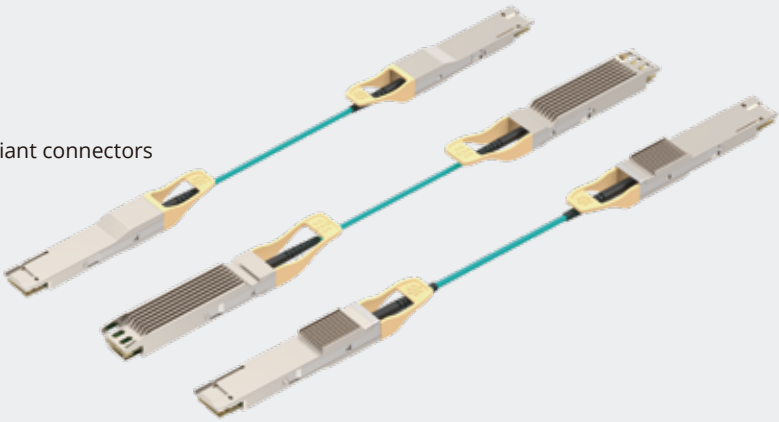
Product	Rate	Reach	Max. Power Consumption (W)	P/N
100G QSFP28 AOC	103.125Gbps	70m (OM3) or 100m (OM4)	2	GQS-MDO101-xxxC
100G QSFP28 AOC (Enhanced)	103.125Gbps	200m (OM3) or 300m (OM4)	2	GQS-MDO101-exxxC
100G QSFP28 to 2x 50G QSFP28 AOC	112.2Gbps	70m (OM3) or 100m (OM4)	2(100G)/1.5(50G)	GQS2-MDO101-xxxC
100G QSFP28 to 4x 25G SFP28 AOC	103.125Gbps	70m (OM3) or 100m (OM4)	2(100G)/1(25G)	GQP-MDO101-xxxC
100G SFP112 AOC	103.125Gbps	70m (OM3) or 100m (OM4)	3	GSS-MDO101-xxxC
120G CXP AOC	103.125Gbps	300m (OM3) or 400m (OM4)	4.5	GCX-MDO121-xxxC
120G CXP to 3x 40G QSFP+ AOC	103.125Gbps	100m (OM3)	4.5(120G)/1.5(40G)	GCQ-MDO121-xxxC
128GFC QSFP28 AOC	112.2Gbps	70m (OM3) or 100m (OM4)	2	GQS-MDO111-xxxC
128GFC QSFP28 AOC (Enhanced)	112.2Gbps	200m (OM3) or 300m (OM4)	2	GQS-MDO111-exxxC
200G QSFP28-DD AOC	206.25Gbps	70m (OM3) or 100m (OM4)	4	GQD-MDO201-xxxC
200G QSFP28-DD to 2x 100G QSFP28 AOC	206.25Gbps	70m (OM3) or 100m (OM4)	4(200G)/2(100G)	GDA2-MDO201-xxxC
200G QSFP28-DD to 4x 50G QSFP28 AOC	206.25Gbps	70m (OM3) or 100m (OM4)	4(200G)/1.5(50G)	GDA4-MDO201-xxxC
200G QSFP56 AOC Lite	212.5Gbps	35m (OM3)	4.5	GQS-MDO201-xxxCW
200G QSFP56 AOC	206.25Gbps	70m (OM3) or 100m (OM4/OM5)	5	GQS-MDO201-xxxC
200G QSFP56 to 2x 100G QSFP56 AOC	206.25Gbps	70m (OM3) or 100m (OM4/OM5)	5(200G)/4.5(100G)	GQQ2-MDO201-xxxC
200G QSFP56 to 4x 50G QSFP56 AOC	206.25Gbps	70m (OM3) or 100m (OM4/OM5)	5(200G)/4.5(50G)	GQQ4-MDO201-xxxC
200G QSFP56 to 4x 50G SFP56 AOC	206.25Gbps	70m (OM3) or 100m (OM4/OM5)	5(200G)/2(50G)	GQP-MDO201-xxxC

Note: The "xxx" in the P/N means the Length, e.g., 001 means 1 meter, 002 means 2 meters, 010 means 10 meters, 100 means 100 meters, etc.

AOC 400G/800G

Features

- 4/8-channel full-duplex active optical cable
- 850nm VCSEL transmitter and PIN receiver
- Hot-pluggable QSFP112/ QSFP-DD/OSFP MSA-compliant connectors
- Compliant with CMIS, SFF-8636 and SFF-8665
- OM3, OM4 or OM5 MMF optional
- EEPROM customized with I²C interface
- RoHS compatible (lead free)



Product	Rate	Reach	Max. Power Consumption (W)	P/N
400G QSFP56-DD AOC	425Gbps	70m (OM3) or 100m (OM4/OM5)	9	GQD-MDO401-xxxC
400G QSFP56-DD to 2x 200G QSFP56 AOC	425Gbps	70m (OM3) or 100m (OM4/OM5)	9(400G)/5(200G)	GDA2-MDO401-xxxC
400G QSFP56-DD to 4x 100G QSFP56 AOC	425Gbps	70m (OM3) or 100m (OM4/OM5)	9(400G)/4.5(100G)	GDA4-MDO401-XXXC
400G QSFP56-DD to 8x 50G SFP56 AOC	425Gbps	70m (OM3) or 100m (OM4/OM5)	9(400G)/2(50G)	GDS8-MDO401-xxxC
400G QSFP112 AOC	425Gbps	60m (OM3) or 100m (OM4)	8	GQS-MDO401-XXXC
400G OSFP-RHS AOC	425Gbps	60m (OM3) or 100m (OM4)	8	GOP-MDO401-XXXC
400G OSFP-RHS to 2x200G QSFP56 AOC	425Gbps	30m	8(400G)/4.2(200G)	GOS-GDA2MDO401-xxxC
800G QSFP-DD AOC	850Gbps	30m (OM3) or 50m (OM4)	14	GCQ-MDO121-xxxC
800G OSFP AOC	850Gbps	30m (OM3) or 50m (OM4)	14	GQS-MDO111-xxxC
800G QSFP-DD to 2x400G QSFP112 Breakout AOC	850Gbps	30m (OM3) or 50m (OM4)	14(800G)/8(400G)	GQS-MDO111-exxxC
800G OSFP to 2x400G OSFP112 Breakout AOC	850Gbps	30m (OM3) or 50m (OM4)	14(800G)/8(400G)	GQD-MDO201-xxxC

Note: The "xxx" in the P/N means the Length, e.g., 001 means 1 meter, 002 means 2 meters, 010 means 10 meters, 100 means 100 meters, etc.

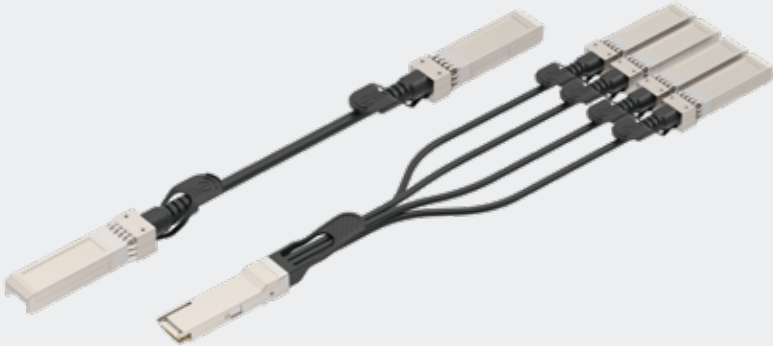
Direct Attach Cables DAC (PCC / ACC)

04

DAC 10~100G

Features

- Single-channel full-duplex twinax copper cable
- 24, 26, or 30 AWG optional
- Hot-pluggable SFP MSA-compliant connectors
- Compliant with SFF-8402, SFF-8431 and SFF-8432
- Case operating temperature range: 0 to 70°C
- EEPROM customized with I²C interface
- Enhanced EMI/EMC performance
- RoHS compatible (lead free)



Product	Rate	Port 1	Port 2	Reach	P/N
10G SFP+ PCC	10.3125Gbps	SFP+	SFP+	3m (30AWG) 7m (24AWG)	GPP-PC192-xxxxC
25G SFP28 PCC	25.78125Gbps	SFP28	SFP28	2m (30AWG) 5m (26AWG)	GPP-PC250-xxxxC
40G QSFP+ PCC	41.25Gbps	QSFP+	QSFP+	3m (30AWG) 5m (26AWG)	GQS-PC400-xxC
40G QSFP+ to 4x 10G SFP+ PCC	41.25Gbps 4x10.3125Gbps	QSFP+	SFP+	3m (30AWG)	GQS-PC400-xxC
50G SFP56 PCC	53.125Gbps	SFP56	SFP56	2m (30AWG) 3m (26AWG)	GSS-PC560-xxC
56G QSFP+ PCC	56.25Gbps	QSFP+	QSFP+	2m (30AWG) 3m (28AWG) / 5m (26AWG)	GQS-PC560-xxxxC
100G QSFP28 PCC	103.125Gbps	QSFP28	QSFP28	3m (30AWG) 5m (26AWG)	GQS-PC101-xxC
100G QSFP28 to 4x 25G SFP28 PCC	103.125Gbps 4x25.78125Gbps	QSFP28	SFP28	3m (30AWG) 5m (26AWG)	GQS-4P28-PxxC
100G SFP112 PCC	103.125Gbps	SFP112	SFP112	1.8m (26AWG)	GSS-PC101-xxC
100G SFP112 ACC	103.125Gbps	SFP112	SFP112	5m (26AWG)	GSS-AC101-xxC

Note: The "xxx" in the P/N means the Length, e.g., 001 means 1 meter, 002 means 2 meters, 010 means 10 meters, 100 means 100 meters, etc.

DAC 200G

Features

- 4/8-channel full-duplex twinax copper cable
- 26 or 30 AWG optional
- Hot-pluggable QSFP56/QSFP-DD MSA-compliant connectors
- Compliant with CMIS, SFF-8636 and SFF-8665
- Case operating temperature range: 0 to 70°C
- EEPROM customized with I²C interface

- Enhanced EMI/EMC performance
- RoHS compatible (lead free)



Product	Rate	Port 1	Port 2	Reach	P/N
200G PCC					
200G QSFP-DD PCC	206.25Gbps	QSFP28-DD	QSFP28-DD	3m (30AWG) 5m (26AWG)	GQD-PC201-xxC
200G QSFP56 PCC	212.5Gbps	QSFP56	QSFP56	2m (30AWG) 3m (26AWG)	GQS-PC201-XXC
200G QSFP56 to 2x 100G QSFP56 PCC	212.5Gbps	QSFP56	QSFP56	3m (30AWG) 2m (26AWG)	GQS-2Q56-PXXC
200G QSFP56 to 4x 50G SFP56 PCC	212.5Gbps 4x53.125Gbps	QSFP56	SFP56	2m (30AWG) 3m (26AWG)	GQS-4Q56-PXXC
200G ACC					
200G QSFP56 ACC	212.5Gbps	QSFP56	QSFP28	7m (26AWG)	GQS-AC201-DXXC

DAC 400G

Features

- 4/8-channel full-duplex twinax copper cable
- 26 or 30 AWG optional
- Hot-pluggable QSFP-DD/QSFP112/OSFP MSA-compliant connectors
- Compliant with CMIS, SFF-8636 and SFF-8665
- Case operating temperature range: 0 to 70°C
- EEPROM customized with I²C interface

- Enhanced EMI/EMC performance
- RoHS compatible (lead free)



Product	Rate	Port 1	Port 2	Reach	P/N
400G PCC					
400G QSFP56-DD PCC	425Gbps	QSFP56-DD	QSFP56-DD	2m (30AWG) 3m (26AWG)	GQD-PC401-xxC
400G QSFP56-DD to 2x 200G QSFP56 PCC	425Gbps 2x212.5Gbps	QSFP56-DD	QSFP56	2m (30AWG) 3m (26AWG)	GQD-2Q56P401-xxC
400G QSFP56-DD to 4x 100G QSFP56 PCC	425Gbps 4x103.125Gbps	QSFP56-DD	QSFP56	2m (30AWG) 3m (26AWG)	GQD-4Q56P401-xxC
400G QSFP56-DD to 8x 50G SFP56 PCC	425Gbps 8x53.125Gbps	QSFP56-DD	SFP56	2m (30AWG) 3m (26AWG)	GQD-8S56P401-XXC
400G QSFP112 PCC	425Gbps	QSFP112	OSFP112	1m (30AWG) 2m (26AWG)	GQS-PC401-xxC
400G OSFP-RHS PCC	425Gbps	OSFP-RHS	OSFP-RHS	1m (30AWG) 2m (26AWG)	GOS-PC401-xxC
400G OSFP-RHS to 2x 200G QSFP56 PCC	425Gbps 2x212.5Gbps	OSFP-RHS	OSFP56	1.5m (30AWG) 2m (26AWG)	GOS-2Q56P401-xxC
400G OSFP-RHS to 2x 200G QSFP28 PCC	425Gbps 2x212.5Gbps	OSFP-RHS	QSFP28	1.5m (30AWG) 2m (26AWG)	GOS-2Q28P401-xxC
400G OSFP-RHS to 4x 100G QSFP28 PCC	425Gbps 4x103.125Gbps	OSFP-RHS	QSFP28	1.5m (30AWG) 2m (26AWG)	GOS-4Q28P401-xxC
400G ACC					
400G QSFP-DD ACC	425Gbps	OSFP-DD	OSFP-DD	7m (26AWG)	GQD-AC401-DXXC
400G QSFP112 ACC	425Gbps	QSFP112	QSFP112	2~5m (26/25AWG)	GQS-AC401-xxC
400G OSFP-RHS ACC	425Gbps	OSFP-RHS	OSFP-RHS	3~4m(30/26AWG) 4~7m(26AWG)	GOS-AC401-XXC

Note: The "xxx" in the P/N means the Length, e.g., 001 means 1 meter, 002 means 2 meters, 010 means 10 meters, 100 means 100 meters, etc.

DAC 800G

Features

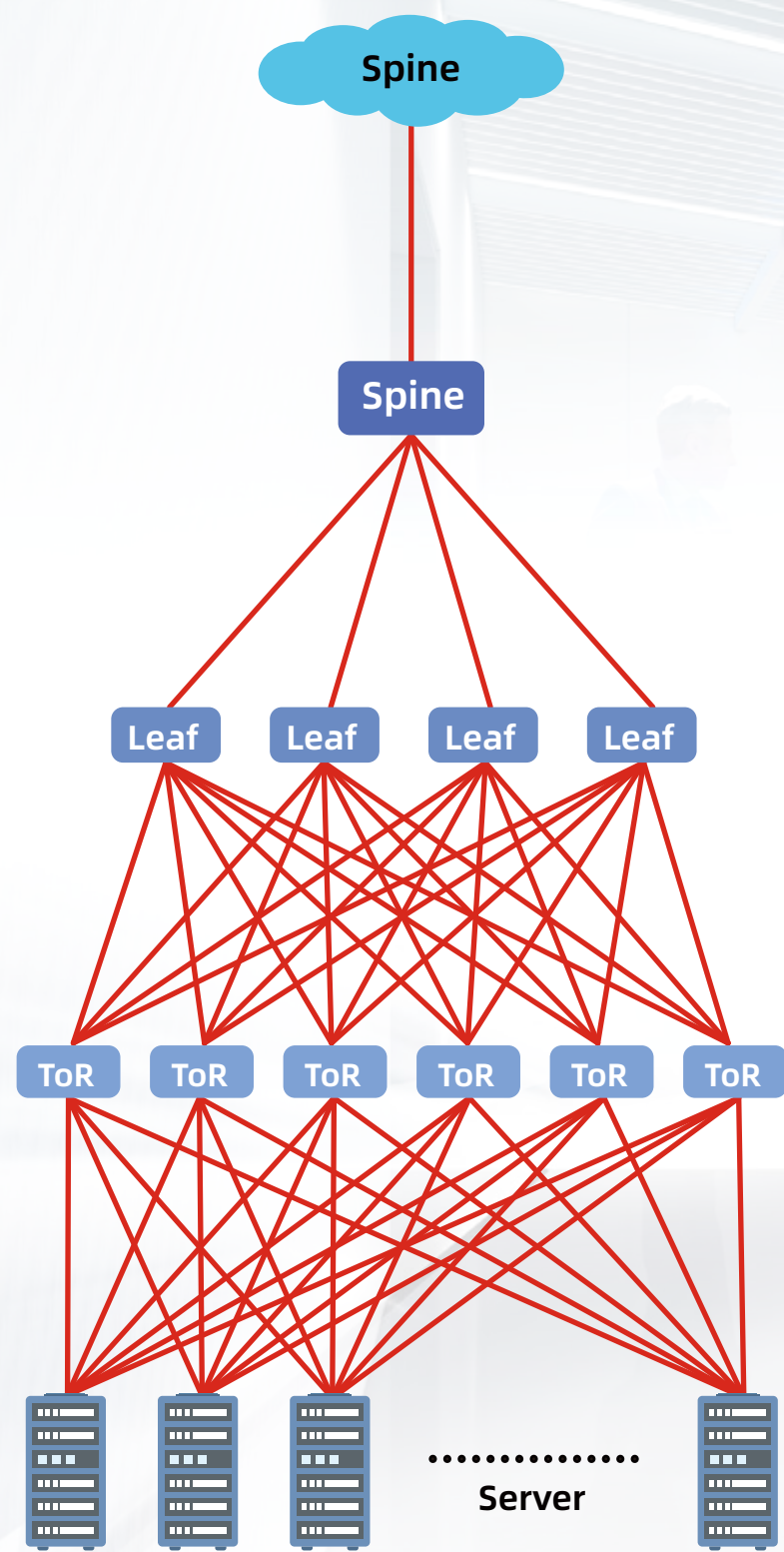
- 8-channel full-duplex twinax copper cable
- 26 or 30 AWG optional
- Hot-pluggable QSFP-DD/OSFP MSA-compliant connectors
- Compliant with CMIS, SFF-8636 and SFF-8665
- Case operating temperature range: 0 to 70°C
- EEPROM customized with I²C interface
- Enhanced EMI/EMC performance
- RoHS compatible (lead free)

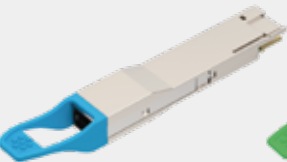
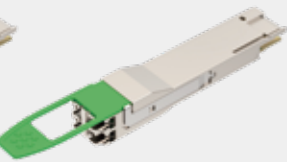
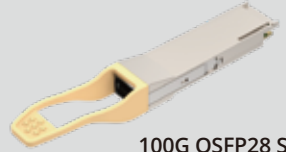
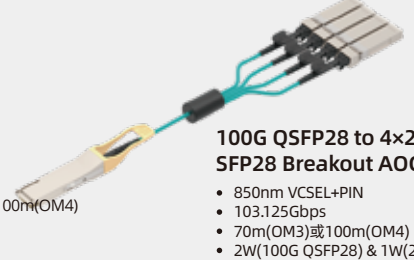


Product	Rate	Port 1	Port 2	Reach	P/N
800G PCC					
800G QSFP112-DD PCC	850Gbps	QSFP112-DD	QSFP112-DD	1m (30AWG) 2m (26AWG)	GQS-PC801-xxC
800G QSFP-DD to 2x400G QSFP112 Breakout PCC	850Gbps 2x425Gbps	QSFP-DD	QSFP112	1m (30AWG) 1.8m (26AWG)	GQD-2QPC801-xxC
800G OSFP PCC	850Gbps	OSFP	OSFP	0.5m/1m (30AWG) 2m (26/25AWG)	GOS-PC801-XXXC
800G OSFP to 2x400G OSFP-RHS Breakout PCC	850Gbps 2x425Gbps	OSFP	OSFP-RHS	1m (30AWG) 1.8m (26AWG)	GOS-2OPC801-xxC
800G OSFP to 2x400G QSFP112 Breakout PCC	850Gbps 2x425Gbps	OSFP	QSFP112	1.5m (30AWG) 3m (26AWG)	GOS-2Q112P801-xxC
800G OSFP to 4x200G QSFP112 Breakout PCC	850Gbps 4x212.5Gbps	OSFP	QSFP112	1.5m (30AWG) 3m (26AWG)	GOS-4Q112P801-xxC
800G ACC					
800G QSFP-DD ACC	850Gbps	QSFP-DD	QSFP-DD	4m (26AWG)	GQD-AC801-DXXC
800G QSFP-DD to 2x400G QSFP112 Breakout ACC	850Gbps 2x425Gbps	QSFP-DD	QSFP112	5m (26AWG)	GQD-2QAC801-xxC
800G OSFP ACC	850Gbps	OSFP	OSFP	5m (26AWG)	GOS-AC801-XXXC
800G OSFP to 2x400G OSFP-RHS Breakout ACC	850Gbps 2x425Gbps	OSFP	OSFP-RHS	5m (26AWG)	GOS-2OAC801-xxC
800G OSFP to 4x200G OSFP-RHS Breakout ACC	850Gbps 4x212.5Gbps	OSFP	OSFP-RHS(Flat-top)	4m (30AWG) 5m (26AWG)	GOS-4OA801-xxC
800G OSFP to 2x400G QSFP112 Breakout ACC	850Gbps 2x425Gbps	OSFP	QSFP112	4m (30AWG) 5m (26AWG)	GOS-2Q112A801-xxC
800G OSFP to 4x200G QSFP112 Breakout ACC	850Gbps 4x212.5Gbps	OSFP	QSFP112	4m (30AWG) 5m (26AWG)	GOS-4Q112A801-xxC

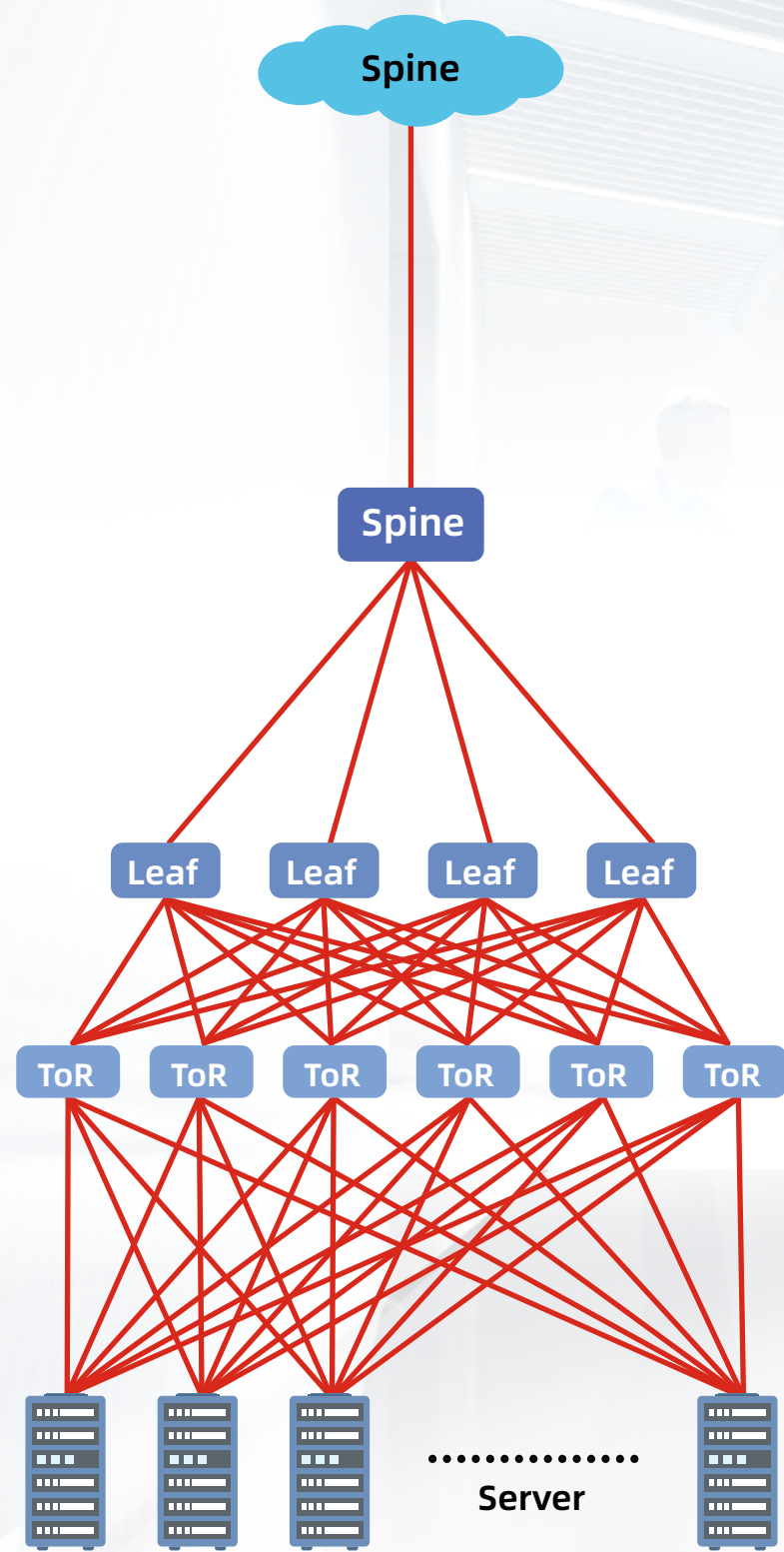
Note: The "xxx" in the P/N means the Length, e.g., 001 means 1 meter, 002 means 2 meters, 010 means 10 meters, 100 means 100 meters, etc.

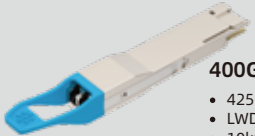
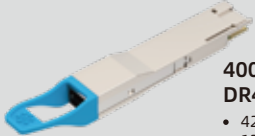
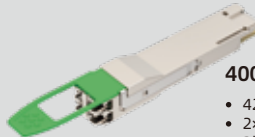
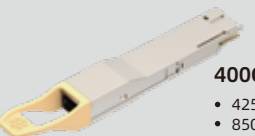
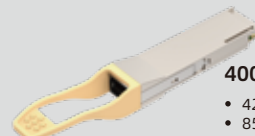
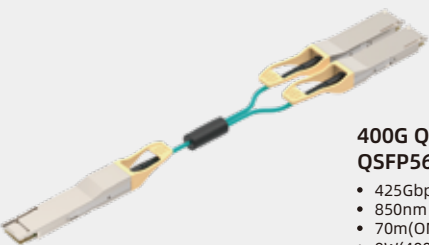
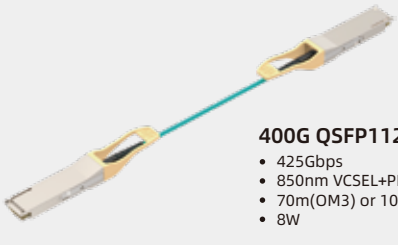
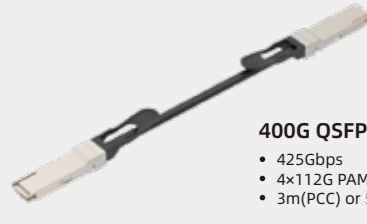
Data Center Solution 100G/200G



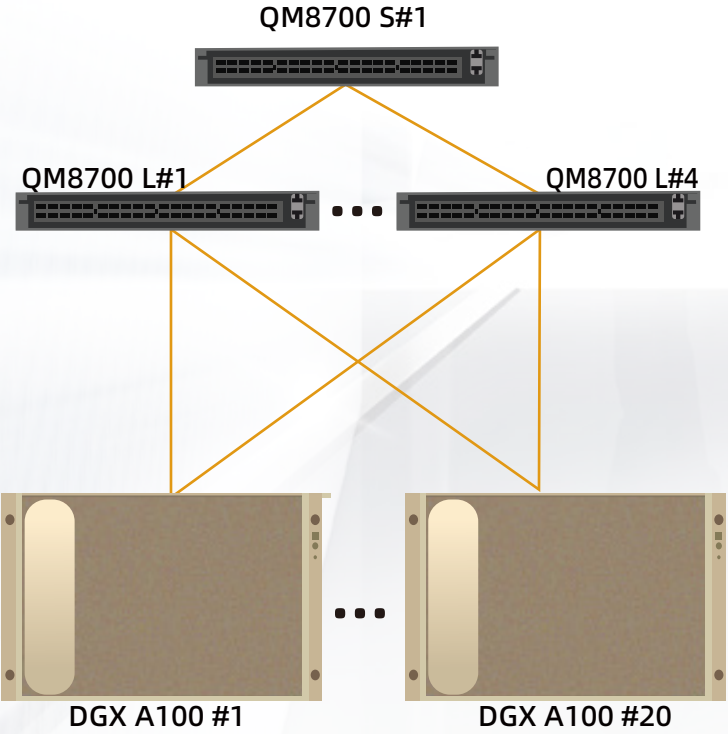
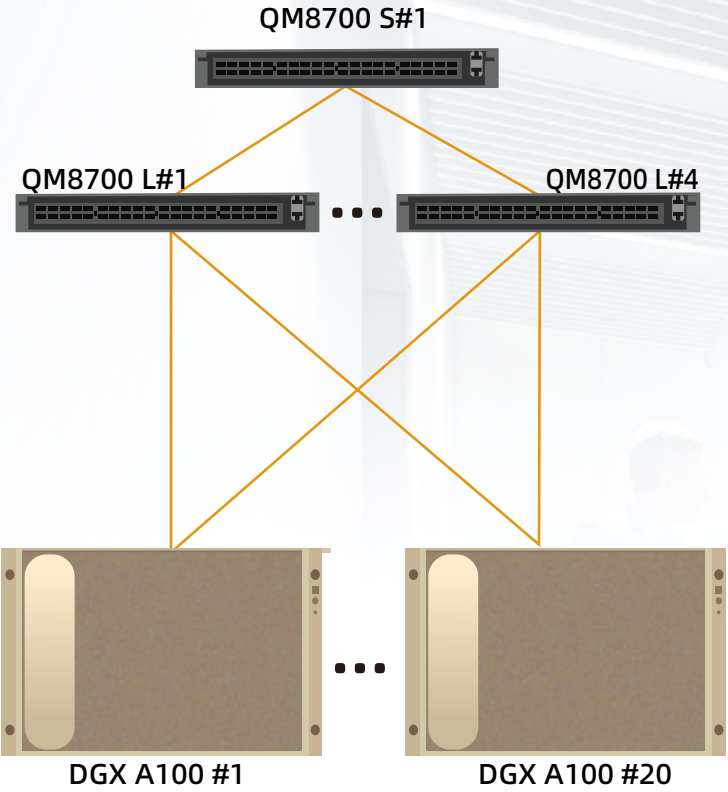
100G(4×25G NRZ)	200G (8×25G NRZ)	200G (4×50G PAM4)
Spine - Spine (≤10km) 100G QSFP28 LR4 • LAN-WDM DFB+PIN • 103.125Gbps or 111.8Gbps • 10km/20km • 3.5W • Dual LC	200G QSFP-DD LR8 • 206.25Gbps • LWDM EML+PIN • 10km/20km • 7.5W • Dual LC	200G QSFP56 LR4 • 212.5Gbps • CWDM/LWDM DML+PIN • 10km • 7.5W • Dual LC 400G QSFP-DD LR4 • 425Gbps • LWDM EML+PIN • 10km • 12W • Dual LC
Leaf - Spine (≤2km) 100G QSFP28 CWDM4 • CWDM DFB+PIN • 103.125Gbps • 2km/10km • 3.5W • Dual LC	200G QSFP-DD PSM8 • 206.25Gbps • 1310nm DML+PIN • 2km/10km • 6W(2km) or 6.5W(10km) • MPO24 200G QSFP-DD 2xCWDM4 • 206.25Gbps • 2xCWDM4 DML+PIN • 2km/10km • 7W • Dual Duplex LC	200G QSFP56 DR4 • 212.5Gbps • 1310nm DML+PIN • 500m • 5.5W • MPO12 200G QSFP56 FR4 • 212.5Gbps • CWDM DML/EML+PIN • 10km/20km • 5.5W • Dual LC
TOR - Leaf (≤100m) 100G QSFP28 SR4 • 850nm VCSEL+PIN • 25.78Gbps • Standard edition: 70m(OM3) or 100m(OM4) • Enhanced Edition: 300m(OM4) • 1W	200G QSFP-DD SR8 • 850nm VCSEL+PIN • 206.25Gbps • 70m(OM3) or 100m(OM4) • 4W • MPO24	200G QSFP56 SR4 • 212.5Gbps • 850nm VCSEL+PIN • 70m(OM3) or 100m(OM4) • 5W • MPO12
Server - TOR (DAC/AOC) (≤20m) 25G SFP28 AOC • 850nm VCSEL+PIN • 25.78Gbps • Standard edition: 70m(OM3) or 100m(OM4) • Enhanced Edition: 300m(OM4) • 1W 100G QSFP28 to 4×25G SFP28 Breakout AOC • 850nm VCSEL+PIN • 103.125Gbps • 70m(OM3) or 100m(OM4) • 2W(100G QSFP28) & 1W(25G SFP28) 25G SFP28 DAC • 25.78125Gbps • 25G NRZ • 5m 100G QSFP28 to 4×25G SFP28 Breakout PCC • 25.78125Gbps • 25G NRZ • 5m	200G QSFP-DD to 8×25G SFP28 Breakout AOC • 850nm VCSEL+PIN • 206.25Gbps & 2×103.125Gbps • 70m(OM3) or 100m(OM4) • 4W(200G QSFP-DD) & 1W(25G SFP28) 200G QSFP-DD to 8×25G SFP28 Breakout PCC • 206.25Gbps • 8×25G NRZ • 3m	200G QSFP56 to 2×100G QSFP56 Breakout AOC • 850nm VCSEL+PIN • 212.5Gbps & 2×106.25Gbps • 70m(OM3) or 100m(OM4) • 5W(200G QSFP56) & 4.5W(100G QSFP56) 200G QSFP56 to 2×100G QSFP56 Breakout PCC • 212.5Gbps & 2×106.25Gbps • 4×50G PAM4 • 5m

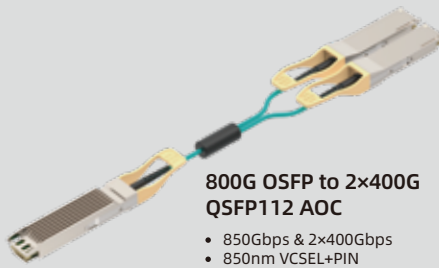
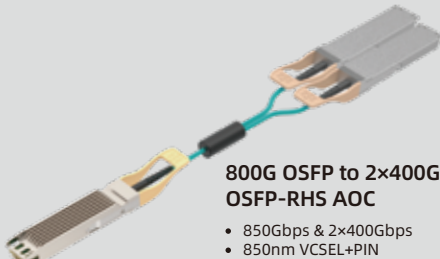
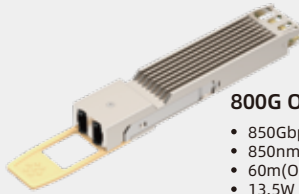
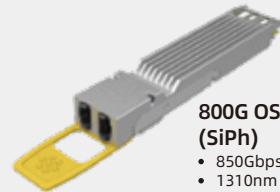
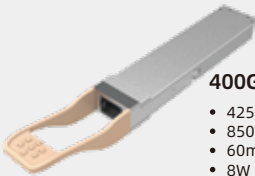
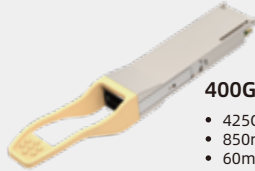
Data Center Solution 400G



400G QSFP-DD		400G QSFP112(4X100G PAM4)	
Spine - Spine (≤10km)			
 400G QSFP-DD LR8 • 425Gbps • LWDM EML+PIN • 10km/20km • 12.5W • MPO24/MPO16	 400G QSFP-DD DR4++(SiPh) • 425Gbps • 1310nm CW+MZ+PIN • 10km • 10.5W • MPO12	 400G QSFP112 DR4++(SiPh) • 425Gbps • 1310nm CW+MZ+PIN • 10km • 10.5W • MPO12	 400G QSFP112 FR4 • 425Gbps • CWDM4 EML • 2km • 11W • Dual LC
 400G QSFP-DD 2xFR4 • 425Gbps • 2xCWDM4 DML+PIN • 2km • 9W • Dual Duplex LC	 400G QSFP-DD LR4(EML) • 425Gbps • LWDM EML+PIN • 10km • 11W • Dual LC	 400G QSFP112 LR4 • 425Gbps • CWDM4 EML • 10km • 11W • Dual LC	
Leaf - Spine (≤2km)			
 400G QSFP-DD PSM8 • 425Gbps • 1310nm EML+PIN • 2km/10km • 11W • MPO24/MPO16	 400G QSFP-DD DR4/DR4+(SiPh) • 425Gbps • 1310nm CW+MZ+PIN • 500m/2km • 10W • MPO12	 400G QSFP112 DR4/DR4+(SiPh) • 425Gbps • 1310nm CW+MZ+PIN • 500m/2km • 10W • MPO12	
TOR - Leaf (≤100m)			
 400G QSFP-DD SR8 • 425Gbps • 850nm VCSEL+PIN • 70m(OM3) or 100m(OM4) • 8.5W • MPO16		 400G QSFP112 SR4 • 425Gbps • 850nm VCSEL+PIN • 70m(OM3) or 100m(OM4) • 8W • MPO12	
Server - TOR (DAC/AOC) (≤20m)			
 400G QSFP-DD to 2x200G QSFP56 Breakout AOC • 425Gbps & 2x212.5Gbps • 850nm VCSEL+PIN • 70m(OM3) or 100m(OM4) • 9W(400G QSFP-DD) or 5W(200G QSFP56)		 400G QSFP112 AOC • 425Gbps • 850nm VCSEL+PIN • 70m(OM3) or 100m(OM4) • 8W	
 400G QSFP-DD to 2x200G QSFP56 Breakout PCC • 425Gbps & 2x212.5Gbps • 8x50G PAM4 • 3m		 400G QSFP112 DAC • 425Gbps • 4x112G PAM4 • 3m(PCC) or 5m(ACC)	

800G AI Data Center Solution



>5m		>50m	
 800G OSFP to 2x400G QSFP112 DAC • 850Gbps & 2x400Gbps • 8x100G PAM4 • 2m(PCC)/5m(ACC)	 800G OSFP to 2x400G OSFP-RHS DAC • 850Gbps & 2x400Gbps • 8x100G PAM4 • 2m(PCC)/5m(ACC)	 800G OSFP to 2x400G QSFP112 AOC • 850Gbps & 2x400Gbps • 850nm VCSEL+PIN • 30m (OM3) or 50m (OM4)	 800G OSFP to 2x400G OSFP-RHS AOC • 850Gbps & 2x400Gbps • 850nm VCSEL+PIN • 30m (OM3) or 50m (OM4)
>100m		<500m	
 800G OSFP SR8 • 850Gbps • 850nm VCSEL+PIN • 60m(OM3) or 100m(OM4) • 13.5W • 2xMPO12	 800G OSFP DR8/DR8+/DR8++ (SiPh) • 850Gbps • 1310nm CW+MZ+PIN • 500m/2km/10km • 18.5W • 2xMPO12	 400G OSFP-RHS SR4 • 425Gbps • 850nm VCSEL+PIN • 60m (OM3) /100m (OM4) • 8W • MPO12	 400G QSFP112 SR4 • 425Gbps • 850nm VCSEL+PIN • 60m(OM3) or 100m(OM4) • 8W • MPO12
 400G OSFP-RHS DR4/DR4+/DR4++ (SiPh) • 425Gbps • 1310nm CW+MZ+PIN • 500m/2km/10km • 10W • MPO12	 400G QSFP112 DR4/DR4+/DR4++(SiPh) • 425Gbps • 1310nm CW+MZ+PIN • 500m/2km/10km • 10W • MPO12		