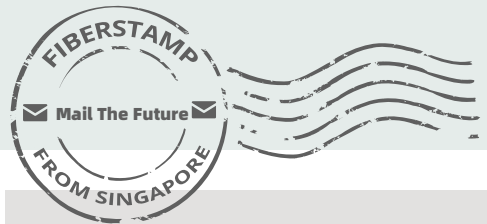


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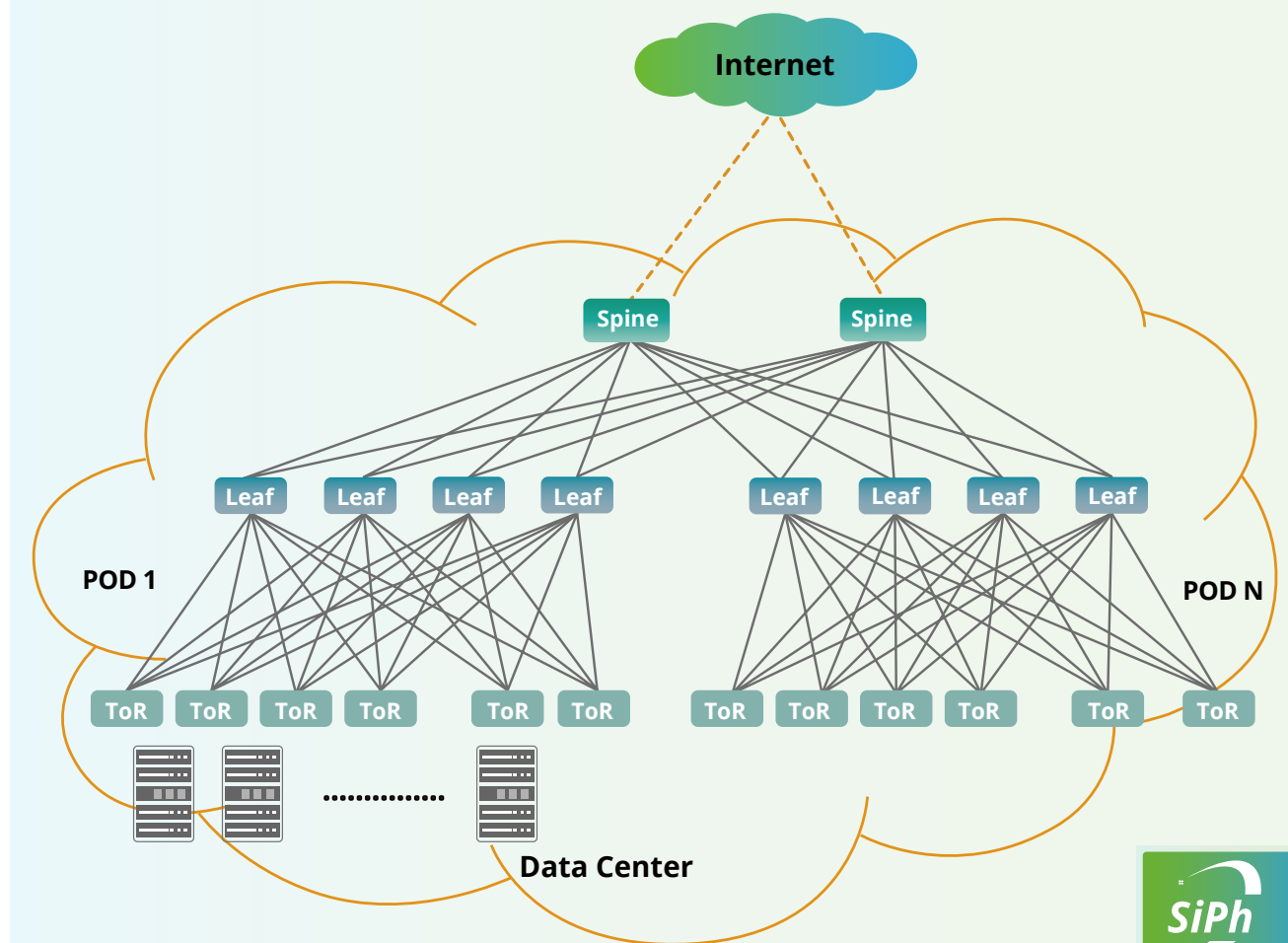
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HIGH-SPEED INTERCONNECT HARDWARE AND LIQUID COOLING SOLUTIONS FOR DATA CENTER AND HPC



Parallel and WDM DCI Solutions Elevate Data Center Connectivity

Data Rate	100G	200G		400G		800G
DCI	100G/200G CFP2 DCO	200G CFP2 DCO	200G /400G CFP2 DCO	400G CFP2 / QSFP-DD OpenZR+ DCO		800G ZR/ZR+ DCO
Spine - Spine (≤10km)	100G LR4	200G LR8	200G LR4 / 400G LR4	400G LR4	400G CWDM4/LR4 /DR4++(SiPh)	800G 2xFR4/2xLR4/ LR8/DR8++(SiPh)
Leaf - Spine (≤2km)	100G CWDM4	200G PSM8	200G DR4	400G 2xFR4 to 2x200G FR4	400G DR4/DR4+ (SiPh)	800G DR8/DR8+ (SiPh)
		200G 2xCWDM4	200G FR4		400G FR4 (SiPh)	800G FR8 (SiPh)
TOR - Leaf (≤100m)	100G SR4	200G SR8	200G SR4	200G SR4	400G SR4/VR4	800G SR8/VR8
Server - TOR (DAC/AOC) (≤20m)	25G	25G	200G to 100G	25G/50G/100G	112G	800G to 4×200G
Serdes	25G NRZ	25G NRZ	50G PAM4	25G NRZ/ 50G PAM4	112G PAM4	100G PAM4
Highlights	Mature Applications	Low Latency	Breakout Access, Hard to Maintain	Point to Point Access, Same Architecture, New Form Factor	Cost/Power Reduction	Multiple Generation, 200G Optical Port

Note:

Products for High Performance Parallel DC

Products for Wavelength Division Multiplexing (WDM) DC

Immersion Liquid Cooling Solutions Revolutionize Data Center Efficiency



Reliable Performance at 10m Depths



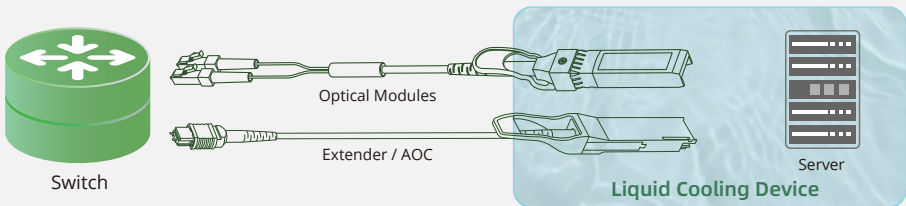
Enhanced Operational Stability



Lower PUE to 1.05

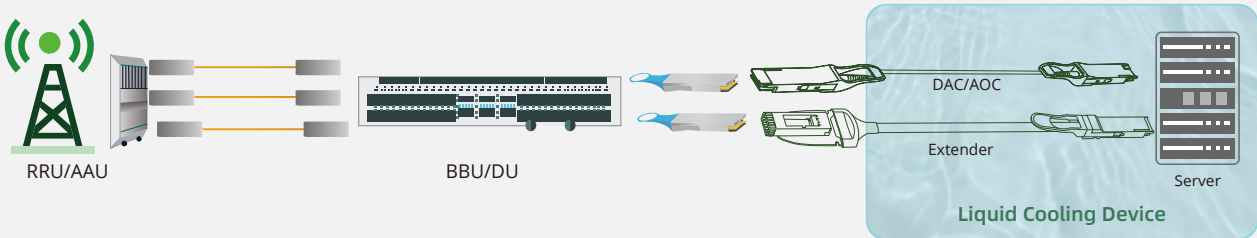
Liquid Cooling Data Center Interconnect Architecture

- Remain ordinary optical modules above TOR of typical data center
- Server connected to TOR with immersion cooling optics



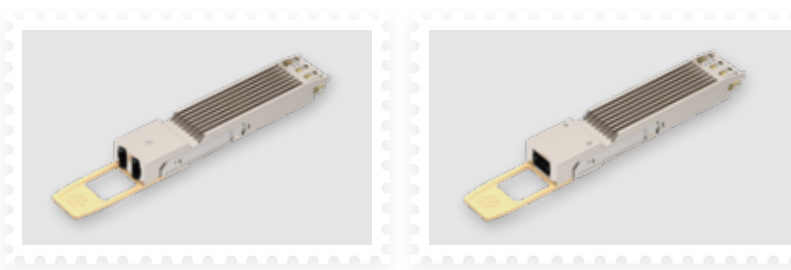
5G Base Station Interconnect Architecture

- Remain ordinary optical modules with RRU/AUU to BBU/DU of typical 5G base station
- Server connected to BBU/DU with immersion cooling optics



Optical Transceivers

• 800G OSFP/QSFP-DD Series



- Features
- Hot-pluggable QSFP-DD/OSFP form factor
 - 8-channel full-duplex transceiver modules
 - Data rate up to 850Gbps
 - 8x 106.25Gbps PAM4 optical interface
 - 8x 106.25Gbps PAM4 electrical interface
 - Compliant with QSFP-DD/OSFP MSA and CMIS

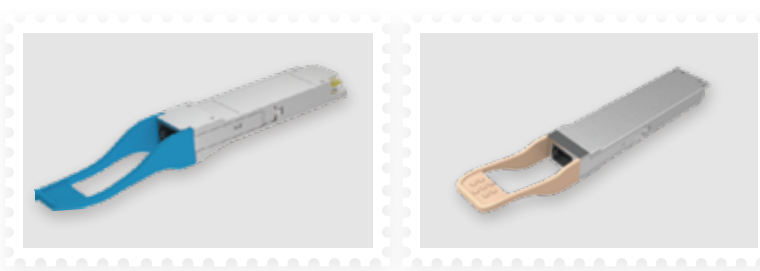
Product Name	Wavelength	LD	PD	Max Distance or Length	Optical Interface	Max.Power Consumption	Part Number
800G QSFP-DD SR8	850nm	VCSEL	PIN	70m(OM3)/100m(OM4)	MPO	14W	FEL-800S8M10C
800G OSFP SR8	850nm	VCSEL	PIN	70m(OM3)/100m(OM4)	MPO	14W	FEU-800S8M10C
800G QSFP DD VR8	850nm	VCSEL	PIN	30m(OM3)/50m(OM4)	MPO	14W	FEL-800S8M05C
800G OSFP VR8	850nm	VCSEL	PIN	30m(OM3)/50m(OM4)	MPO	14W	FEU-800S8M05C
800G QSFP-DD DR8	1310nm	SiPh	PIN	500m	MPO	18W	FUL-800P4M50C
800G QSFP-DD DR8+	1310nm	SiPh	PIN	2km	MPO	18W	FUL-800P4K02C
800G QSFP-DD DR8++	1310nm	SiPh	PIN	10km	MPO	18W	FUL-800P4K10C
800G QSFP-DD FR8	CWDM4	EML/SiPh	PIN	2km	Duplex LC	18W	FUL-800C4K02C
800G QSFP-DD LR8	CWDM4	SiPh	PIN	10km	Duplex LC	18W	FUL-800C4K10C
800G QSFP DD 2xFR4	2x CWDM4	EML/SiPh	PIN	2km	Dual Duplex LC	18W	FTL-800C4K02C
800G QSFP-DD 2xLR4	2x CWDM4	SiPh	PIN	10km	Dual Duplex LC	18W	FTL-800C4K10C
800G OSFP DR8	1310nm	SiPh	PIN	500m	MPO	18W	FUU-800P4M50C
800G OSFP DR8+	1310nm	SiPh	PIN	2km	MPO	18W	FUU-800P4K02C
800G OSFP DR8++	1310nm	SiPh	PIN	10km	MPO	18W	FUU-800P4K10C
800G OSFP 2xFR4	2x CWDM4	SiPh	PIN	2km	Dual Duplex LC	18W	FTU-800C4K02C
800G OSFP 2xLR4	2x CWDM4	SiPh	PIN	10km	Dual Duplex LC	18W	FTU-800C4K10C
800G OSFP DR8/DR8+ TRO	1310nm CW+MZ	SiPh	PIN	500m	Dual MPO12	8W	TBD
800G OSFP 2xFR4 TRO	CWDM4 CW+MZ	SiPh	PIN	2km	Dual Duplex LC	8W	TBD
800G OSFP 2xLR4 TRO	CWDM4 CW+MZ	SiPh	PIN	10km	Dual Duplex LC	8W	TBD
800G QSFP-DD DR8/DR8+ TRO	1310nm CW+MZ	SiPh	PIN	500m	MPO16	8W	TBD
800G QSFP-DD 2xFR4 TRO	CWDM4 CW+MZ	SiPh	PIN	2km	Dual Duplex LC	8W	TBD
800G QSFP-DD 2xLR4 TRO	CWDM4 CW+MZ	SiPh	PIN	10km	Dual Duplex LC	8W	TBD

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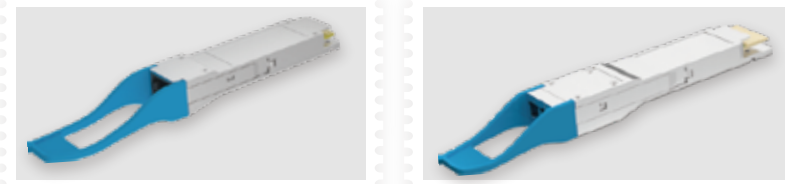
• 400G QSPDD/QSFP112/OSFP-RHS Series



- Features
- Hot-pluggable QSFP-DD/QSFP112/OSFP-RHS form factor
 - 4/8-channel full-duplex transceiver modules
 - Data rate up to 425Gbps
 - 8x 53.125Gbps or 4x 106.25Gbps PAM4 optical interface
 - 8x 53.125Gbps PAM4 electrical interface
 - Compliant with QSFP-DD/QSFP112/OSFP-RHS MSA and CMIS

Product Name	Wavelength	LD	PD	Max Distance or Length	Optical Interface	Max.Power Consumption	Part Number
400G QSFP-DD SR8	850nm	VCSEL	PIN	70m(OM3)/100m(OM4)	MPO	8W	FEL-400S8M10C
400G QSFP-DD FR8	LWDM8	EML	PIN	2km	Dual LC	12.5W	FBL-400C4xK02C
400G QSFP-DD LR8	LWDM8	EML	PIN	10km	Dual LC	12.5W	FBL-400C4K10C
400G QSFP-DD PSM8	1310nm	EML	PIN	2km/10km	MPO	11W	FEL-400P8K20C FEL-400P8K10C
400G QSFP-DD xPSM8	1310nm	EML	PIN	20km	MPO	11W	FEL-400P8K20C
400G QSFP-DD 2x FR4	2x CWDM4	DML	PIN	2km	Dual Duplex LC	9W	FBL-400C4xK02C
400G QSFP-DD SR4	850nm	VCSEL	PIN	60m(OM3)/100m(OM4)	MPO	8W	FEL-400S4M10C
400G QSFP-DD FR4	CWDM4	EML/SiPh	PIN	2km	Dual LC	11W	FTL-400C4K02C
400G QSFP-DD CWDM4	CWDM4	EML/SiPh	PIN	6km	Dual LC	11W	FTL-400C4K06C
400G QSFP-DD LR4	CWDM4	EML/SiPh	PIN	10km	Dual LC	11W	FBL-400P4K10C
400G QSFP-DD DR4	1310nm	EML/SiPh	PIN	500m	MPO	10W	FUL-400P4M50C
400G QSFP-DD DR4+	1310nm	EML/SiPh	PIN	2km	MPO	10W	FUL-400P4K02C
400G QSFP-DD DR4++	1310nm	EML/SiPh	PIN	10km	MPO	10W	FUL-400P4K10C
400G QSFP112 VR4	850nm	VCSEL	PIN	30m(OM3)/50m(OM4)	MPO	8W	FEJ-400S4M05C
400G QSFP112 SR4	850nm	VCSEL	PIN	60m(OM3)/100m(OM4)	MPO	8W	FEJ-400S4M10C
400G QSFP112 DR4	1310nm	EML/SiPh	PIN	500m	MPO	10W	FUJ-400P4M50C
400G QSFP112 DR4+	1310nm	EML/SiPh	PIN	2km	MPO	10W	FUJ-400P4K02C
400G QSFP112 DR4++	1310nm	EML/SiPh	PIN	10km	MPO	10W	FUJ-400P4K10C
400G QSFP112 FR4	CWDM4	EML/SiPh	PIN	2km	Dual LC	11W	FTJ-400C4K02C
400G QSFP112 CWDM4	CWDM4	EML/SiPh	PIN	6km	Dual LC	11W	FTJ-400C4K06C
400G QSFP112 LR4	CWDM4	EML/SiPh	PIN	10km	Dual LC	11W	FTJ-400C4K10C
400G OSFP-RHS VR4	850nm	VCSEL	PIN	30m(OM3)/50m(OM4)	MPO	8W	FER-400S4M05C
400G OSFP-RHS SR4	850nm	VCSEL	PIN	60m(OM3)/100m(OM4)	MPO	8W	FER-400S4M10C
400G OSFP-RHS DR4	1310nm	EML/SiPh	PIN	500m	MPO	10W	FUR-400P4M50C
400G OSFP-RHS DR4+	1310nm	EML/SiPh	PIN	2km	MPO	10W	FUR-400P4K02C
400G OSFP-RHS DR4++	1310nm	EML/SiPh	PIN	10km	MPO	10W	FUR-400P4K10C
400G OSFP-RHS FR4	CWDM4	EML/SiPh	PIN	2km	Dual LC	11W	FTR-400C4K02C
400G OSFP-RHS CWDM4	CWDM4	EML/SiPh	PIN	6km	Dual LC	11W	FTR-400C4K06C
400G OSFP-RHS LR4	CWDM4	EML/SiPh	PIN	10km	Dual LC	11W	FTR-400C4K10C

• 200G QSFP56/QSFP-DD Series



Features

- Hot-pluggable QSFP56/QSFP-DD form factor
- 4/8-channel full-duplex transceiver modules
- Data rate up to 212.5Gbps or 206.25Gbps
- 4x 53.125Gbps or 8x 25.78125Gbps PAM4 optical interface
- 4x 53.125Gbps or 8x 25.78125Gbps PAM4 electrical interface
- Compliant with QSFP56/QSFP-DD MSA and CMIS

Product Name	Wavelength	LD	PD	Max Distance or Length	Optical Interface	Max.Power Consumption	Part Number
200G QSFP56 SR4	850nm	VCSEL	PIN	70m(OM3)/100m(OM4)	MPO	5W	FEH-200S4M10C
200G QSFP56 DR4	1310nm	DML	PIN	500m	MPO	5.5W	FEH-200P4M50C
200G QSFP56 FR4	CWDM4	DML	PIN	2km	Dual LC	6W	FBH-200C4K02C
200G QSFP56 LR4	CWDM4/LWDM4	DML	PIN	10km	Dual LC	7W	FBH-200L4K10C
200G QSFP-DD SR8	850nm	VCSEL	PIN	70m(OM3)/100m(OM4)	MPO	4W	FEL-200S8M10x
200G QSFP-DD PSM8	1310nm	DML	PIN	2km/10km	MPO	6W/6.5W	FBL-200CLK10C
200G QSFP-DD xPSM8	1310nm	DML	PIN	20km	MPO	6.5W	FBL-200CLK20C
200G QSFP-DD LR8	LWDM8	DML	PIN	10km	Dual LC	7.5W	FBL-200L8K10C
200G QSFP-DD 2x CWDM4	2x CWDM4	DML	PIN	2km	Dual Duplex LC	7W	FBL-200CLxK02C

• 100G QSFP28/SFP-DD/SFP112 Series



Features

- Hot-pluggable QSFP28/SFP-DD/SFP112 form factor
- 1/4-channel full-duplex transceiver modules
- Data rate up to 103.125/106.25/112.2Gbps
- 4x 25.78125 or 2x 53.125 or 1x106.25 Gbps interface
- EEPROM customized with I²C interface
- RoHS compatible (lead free)

Product Name	Wavelength	LD	PD	Max Distance or Length	Optical Interface	Max.Power Consumption	Part Number
100G QSFP28 SR4	850nm	VCSEL	PIN	70m(OM3)/100m(OM4)	MPO	2W	FEG-100S4M10C
100G QSFP28 eSR4	850nm	VCSEL	PIN	200m(OM3)/300m(OM4)	MPO	2W	FEG-100B2M300C
100G QSFP28 PSM4/xPSM4	1310nm	DML	PIN	2km/10km	MPO	3.5W	FEG-100P4K10C
100G QSFP28 CLR4/CWDM4	CWDM4	DML	PIN	2km/10km	Dual LC	3.5W	FBG-100CLK10C FBG-100C4K10C
100G QSFP28 LR4	LWDM4	DML	PIN	10km/20km	Dual LC	3.5W	FBG-100L4K20x FBG-100LLK40C FBG-112LLK40C
100G QSFP28 ER4 Lite	LWDM4	DML	APD	30km/40km	Dual LC	3.5W	FBG-100L4K40C FBG-112L4K40C
100G QSFP28 ER4	LWDM4	EML	PIN+SOA	40km	Dual LC	6W	FBG-100L4K40C FBG-112L4K40C
100G QSFP28 ZR4	LWDM4	EML	PIN+SOA	80km	Dual LC	6W	FBG-100L4K80C FBG-112L4K80C
100G QSFP28 SR1.2	850/910nm	VCSEL	PIN	100m(OM4)/150m(OM5)	Dual LC	3W	FBG-100B2M15C
100G QSFP28 DR1	1310nm	EML	PIN	500m	MPO	3.5W	FBG-10031KM50C
100G QSFP28 FR1	1310nm	EML	PIN	2km	Dual LC	3.5W	FBG-10031K02C
100G QSFP28 LR1	1310nm	EML	PIN	20km	Dual LC	4W	FBG-10031K20C
100G QSFP28 ER1	1310nm	EML	APD	40km	Dual LC	4W	FBG-10031K40C
100G QSFP28 BiDi LR1	1271/1331nm	EML	PIN	10km	Single LC	4.5W	FCG-1002733K40C FCG-1003327K40C
100G QSFP28 PSM DWDM4	C-band 100GHz	EML	PIN+SOA	40km	MPO	4.5W	FEG-100D4K40C
100G QSFP28 PSM DWDM4	O-band 150GHz	DML	PIN+EDFA+DCM	80km	MPO	6W	FEG-100x4K80C
100G QSFP28 DR1	1310nm	SiPh	PIN	500m	Dual LC	4W	FTG-10031M50C
100G QSFP28 FR1	1310nm	SiPh	PIN	2km	Dual LC	4W	FTG-10031K02C
100G QSFP28 LR1	1310nm	SiPh	PIN	10km	Dual LC	4W	FTG-10031K10C
100G QSFP28 DWDM1	O-band	SiPh	PIN	25km	Dual LC	4W	FTG-100x4K25C
100G SFP DD FR1	1310nm	EML	PIN	2km	Dual LC	3.5W	FBK-10031K02C
100G SFP DD LR1	1310nm	EML	PIN	10km	Dual LC	3.5W	FBK-10031K10C
100G SFP DD ER1	1310nm	EML	PIN	30km	Dual LC	3.5W	FBK-10031K30C
100G SFP112 SR1	1310nm	VCSEL	PIN	100m	Dual LC	3W	FBK-10031M10C
100G SFP112 FR1	1310nm	EML	PIN	2m	Dual LC	3W	FBK-10031K02C
100G SFP112 LR1	1310nm	EML	PIN	10km	Dual LC	3W	FBK-10031K10C
100G SFP112 ER1	1310nm	EML	PIN	40km	Dual LC	3W	FBK-10031K40C
100G SFP112 DWDM1	O-band	SiPh	PIN	30km	Dual LC	4W	FBK-100x4K30C

• 50G/40G/25G Series



Features

- Including SFP56 50G PAM4, QSFP+ 40G 4x10G NRZ and SFP28 25G NRZ
- Comply with SFP28/SFP56/QSFP+ specification
- Meets SFF-8402, SFF-8431 and SFF-8432 specifications
- The transmission rate is up to 10.3125Gbps~53.125Gbps
- Support EEPROM modify
- RoHS environmental standard

Product Name	Wavelength	LD	PD	Max Distance or Length	Optical Interface	Max.Power Consumption	Part Number
50G SFP56 SR	850nm	VCSEL	PIN	70m(OM3)/100m(OM4)	Duplex LC	2W	FBD-E5085M10C FBD-E5085M10T
50G SFP56 LR	1310nm	EML	PIN	10km	Duplex LC	3W	FBD-E5031K10C FBD-E5031K10T
50G SFP56 ER	1310nm	EML	APD	40km	Duplex LC	3W	FBD-E5031K40C FBD-E5031K40T
40G QSFP+ SR4	850nm	VCSEL	PIN	70m(OM3)/100m(OM4)	MPO12	1.5W	FEF-E40S4M15C FEF-E40S4M15T
40G QSFP+ PSM4	1310nm	DML	PIN	2km/10km	MPO12	3.5W	FEF-E40P4K10C
40G QSFP+ LR4	CWDM4	DML	PIN	2km/10km	Duplex LC	3.5W	FBF-E40C4K10C FBF-E40C4K10T
40G QSFP+ ER4	CWDM4	DML	APD	40km	Duplex LC	3.5W	FBF-N40C4K40C
40G QSFP+ ZR4	LWDM4	EML	APD	80km	Duplex LC	6W	FBF-E40L4K80C
25G SFP28 SR	850nm	VCSEL	PIN	70m(OM3)/100m(OM4)	Duplex LC	1W	FBC-E2585M10C FBC-D2585M10T
25G SFP28 LR	1310nm	DML	PIN	10km/20km	Duplex LC	1.2W	FBC-D2531K20C FBC-D2531K20T
25G SFP28 ER	1310nm	EML	APD	40km	Duplex LC	1.8W	FBC-D2531K40C FBC-D2531K40T
25G SFP28 ZR	1300nm	EML	SOA+PIN	80km	Duplex LC	2.5W	FBC-D2531K80C

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200G Optical Modules



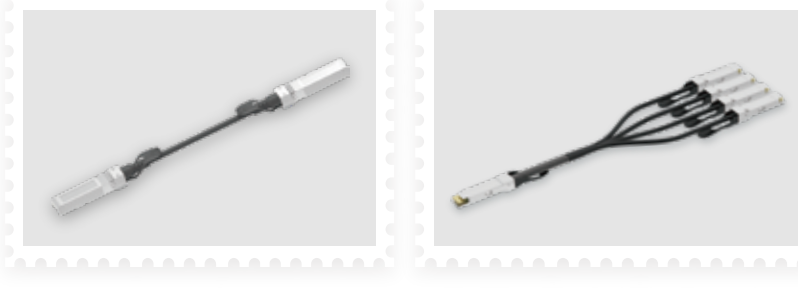
800G/400G/200G/100G/25G Active Optical Cables (AOC)



- Features
- 1/4/8-channel full-duplex active optical cable
 - 850nm VCSEL transmitter and PIN receiver
 - Hot-pluggable SFP+/QSFP28/QSFP-DD/OSFP/OSFP-RHS 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 Name	Wavelength	Max Distance or Length	Max.Power Consumption	Part Number
800G QSFP-DD AOC	850nm	1-100m	13W	FYL-800MxxxC
800G QSFP-DD to 2/4/8x Breakout AOC	850nm	1-100m	13W	FYLxx-800MxxxC
800G OSFP AOC	850nm	1-100m	13W	FYU-800MxxxC
800G OSFP to 2/4/8x Breakout AOC	850nm	1-100m	13W	FYUxx-800MxxxC
400G QSFP-DD AOC	850nm	1-100m	9W	FYL-400MxxxC
400G OSFP AOC	850nm	1-100m	9W	FYU-400MxxxC
400G QSFP-DD to 2/4/8x Breakout AOC	850nm	1-100m	9W (400G) / 5W (200G) / 4.5W (100G) / 2W (50G)	FYLxx-400MxxxC
400G QSFP112 AOC	850nm	1-100m	9W	FYJ-400MxxxC
400G QSFP112 to 2/4x Breakout AOC	850nm	1-100m	9W	FYJxx-400MxxxC
400G OSFP-RHS AOC	850nm	1-100m	9W	FYR-400MxxxC
400G OSFP-RHS to 2/4x Breakout AOC	850nm	1-100m	9W	FYRxx-400MxxxC
200G QSFP-DD AOC	850nm	1-100m	4W	FYL-200MxxxC
200G QSFP-DD to 2/4/8x AOC	850nm	1-100m	4W(200G)/2W(100G)/1.5W(50G) / 1W(25G)	FYLxx-200MxxxC
200G QSFP56 AOC	850nm	1-100m	5W	FYH-200MxxxC
200G QSFP56 to 2/4x AOC	850nm	1-100m	5W(200G) / 4.5W(100G) /2W(50G)	FYH-200MxxxC
100G QSFP28 AOC	850nm	1-100m/300m	2W	FYG-100MxxxC
100G QSFP28 to 2/4x AOC	850nm	1-100m/300m	2W (100G) /1.5W (50G)/1W (25G)	FYGxx-100MxxxC
25G SFP28 AOC	850nm	1-100m/300m	1W	FYC-M25Mxxxx

800G/400G/200G/100G/25G Direct Attach Cables (DAC)



- Features
- Hot-pluggable MSA-compliant DAC cables
 - Data rate up to 25.78-850Gbps
 - 24/26/28/30 AWG optional
 - ACC/PCC BER better than 1E-13
 - Support immersion liquid cooling
 - Commercial case temperature range of 0°C to 70°C
 - RoHS compatible (lead free)

Product Name	Length	AWG	Part Number
PCC Series			
800G QSFP-DD PCC	0.5-2m	30/26	FWL-800xxxxC
800G QSFP-DD to 2/4/8x Breakout PCC	0.5-2m	30/26	FWLxx-800xxxxxC
800G OSFP PCC	0.5-2m	30/26	FWU2J-800xxxxxC
800G OSFP to 2/4/8x Breakout PCC	0.5-2m	30/26	FWU2Jxx-800xxxxxC
400G QSFP-DD PCC	3m	30/28/26	FWL-400xxxxxC
400G QSFP-DD to 2/4/8x Breakout PCC	3m	30/28/26	FWLxx-400xxxxxC
400G QSFP112 PCC	0.5-2m	30/26	FWU-400xxxxxC
400G QSFP112 to 2/4/8x Breakout PCC	0.5-2m	30/26	FWUxx-400xxxxxC
400G OSFP-RHS PCC	0.5-2m	30/26	FWR-400xxxxxC
400G OSFP-RHS to 2/4/8x Breakout PCC	0.5-2m	30/26	FWRxx-400xxxxxC
200G QSFP-DD PCC	0.5-5m	30/26	FWLxx-20030xxxC
200G QSFP-DD to 2/4/8x Breakout PCC	0.5-5m	30/26	FWLxx-20030xxxC
200G QSFP56 PCC	0.5-3m	30/26	FWH-20030xxxC
200G QSFP56 to 2/4x Breakout PCC	0.5-3m	30/26	FWLxx-20030xxxC
100G QSFP28 PCC	0.5-5m	30/26	FWG-10030xxxC
100G QSFP28 to 2/4x Breakout PCC	0.5-5m	30/26	FWGxx-10030xxxC
100G SFP112 PCC	0.5-1.8m	26	FBK-10030xxxC
25G SFP28 PCC	0.5-5m	30/26	FWLxx-20030xxxC
ACC Series			
800G QSFP-DD ACC	5m	30/28/26	FZL-800xxxxxC
800G QSFP-DD to 2/4/8x Breakout ACC	5m	30/28/26	FZLxx-800xxxxxC
800G OSFP ACC	5m	30/28/26	FZU-800xxxxxC
800G OSFP to 2/4/8x Breakout ACC	5m	30/28/26	FZUxx-800xxxxxC
400G QSFP-DD ACC	0.5-7m	30/28/26	FZL-400xxxxxC
400G QSFP-DD to 2/4/8x Breakout ACC	0.5-7m	30/28/26	FZLxx-400xxxxxC
400G QSFP112 ACC	0.5-5m	30/26	FZU-400xxxxxC
400G QSFP112 to 2/4/8x Breakout ACC	0.5-5m	30/26	FZUxx-400xxxxxC
400G OSFP-RHS ACC	0.5-5m	30/26	FZR-400xxxxxC
400G OSFP-RHS to 2/4/8x Breakout ACC	0.5-5m	30/26	FZRxx-400xxxxxC
200G QSFP-DD ACC	0.5-9m	30/26	FZL-200xxxxxC
200G QSFP-DD to 2/4/8x Breakout ACC	0.5-9m	30/26	FZLxx-200xxxxxC
200G QSFP56 ACC	0.5-7m	30/26	FZH-200xxxxxC
200G QSFP56 to 2/4x Breakout ACC	0.5-7m	30/26	FZHxx-200xxxxxC
100G SFP112 ACC	0.5-5m	26	FZK-10030xxxC

Immersion Cooling Optical Transceivers



Features

- Hot-pluggable MSA-compliant pigtailed transceiver assemblies
- Data rate up to 10.315-212.5Gbps
- Support immersion liquid cooling
- Customized pigtails available
- Commercial case temperature range of 0°C to 60°C
- RoHS compliant(lead free)

Product Name	Center Wavelength	Max Distance or Length	Optical Interface	Max.Power Consumption	Part Number
800G OSFP SR8	850nm	100m	MPO/Dual MPO	14W	FQU-800S8M10xxx
800G OSFP DR8 SiPh	1310nm	500m	MPO/Dual MPO	14W	FUU-800S8M10xxx
400G QSFP112 SR4	850nm	100m	MPO	10W	FQJ-400SR4M10xxx
400G QSFP112 DR4 SiPh	1310nm	500m	MPO	10W	FUJ-400P4M50Cxxx
400G OSFP-RHS SR4	850nm	100m	MPO	10W	FQR-400SR4M10xxx
400G OSFP-RHS DR4 SiPh	1310nm	500m	MPO	10W	FQR-400P4K10xxx
200G QSFP56 SR4	850nm	100m	MPO	5W	FQH-200S4M10xxx
100G QSFP28 SR4	850nm	100m/300m	MPO	2W	FQG-100S4M10xxx
100G QSFP28 PSM4	1310nm	2km/10km	MPO	3.5W	FQG-100P4K02xxx
40G QSFP+ SR4	850nm	70m/100m	MPO	2W	FQG-100P4K10xxx
25G SFP28 SR	850nm	100m/300m	MPO	1W	FQF-M4085M07xxx
25G SFP28 LR	1310nm	10km	MPO	1.8W	FQF-M4085M10xxx
25G SFP28 BiDi LR	1270/1330nm	10km	MPO	1.6W	FMC-M2585M10xxx
10G SFP+ LR	1310nm	10km	MPO	0.8W	FMC-M2585M30xxx
10G SFP+ BiDi LR	1270/1310nm	10km	MPO	1.5W	FMC-M1031K10xxx
					FMC-M1023K10xxx
					FMC-M1032K10xxx

Immersion Cooling Active Optical Cable (AOC)



Features

- Submersible version AOC
- Hot-pluggable SFP/SFP28/QSFP+/QSFP28/QSFP56/QSFP-DD/QSFP112/OSFP MSA-compliant form factor
- Compliant with CMIS, SFF-8636 and SFF-8665
- Data rate up to 10.31-800Gbps
- Case operating temperature range from 0 to 60°C

Product Name	Standard	LD	PD	Reach	Max. Power Consumption(W)
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
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
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 to 2/4× Breakout AOC	100G/200GBase-SR4	850nm VCSEL	PIN	1-100m	5/4.5/2
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
40GQSFP+ AOC	40GBase-SR4	850nm VCSEL	PIN	1-300m/400m	1.5
25G SFP28 AOC	25GBase-SR	850nm VCSEL	PIN	1-100m	1
10G SFP+ AOC	10GBase-SR	850nm VCSEL	PIN	1-100m/400m	0.8

Immersion Cooling Extender



Features

- Significant CAPEX savings for immersion liquid-cooling data centers
- Support 40G/100G/200G QSFP transceivers or AOC with QSFP-QSFP flat cage
- 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 Name	Package Type	AWG	Length	Temperature°C
Immersion 200G QSFP56 Extender	QSFP56 to QSFP56 Flat Cage	30AWG	Up to 50cm	0~60
Immersion 100G QSFP28 Extender	QSFP28 to QSFP28 Flat Cage	30AWG	Up to 50cm	0~60
Immersion 40G QSFP+ Extender	QSFP+ to QSFP+ Flat Cage	30AWG	Up to 50cm	0~60
PERLIMIANRY				
Immersion 800G QSFP-DD Extender	QSFP-DD to QSFP-DD Flat Cage	30AWG	Up to 50cm	0~60
Immersion 400G QSFP-DD Extender	QSFP-DD to QSFP-DD Flat Cag	30AWG	Up to 50cm	0~60
Immersion 200G QSFP-DD Extender	QSFP-DD to QSFP-DD Flat Cag	30AWG	Up to 50cm	0~60

Immersion Cooling Direct Attach Cable (DAC)



Features

- Special design for liquid immersion environment
- Data rate up to 10.31-212.2Gbps
- Compatible to SFP28/QSFP28/QSFP56/QSFP-DD/QSFP112/OSFP MSA
- Copper link length up to 7m
- Operating Temperature: 0~ 70°C

Product Name	Rate	Reach	Temperature°C
800G QSFP-DD DAC	850Gbps	2m	0~70
800G OSFP DAC	850Gbps	2m	0~70
400G QSFP-DD DAC	425Gbps	3m	0~70
400G OSFP-RHS DAC	425Gbps	3m	0~70
400G QSFP112 DAC	425Gbps	3m	0~70
200G QSFP56 DAC	212.5Gbps	3m	0~70
200G QSFP-DD DAC	206.25Gbps	3m	0~70
100G QSFP28 DAC	103.12Gbps	5m	0~70
40G QSFP+ DAC	41.25Gbps	5m	0~70
25G SFP28 DAC	25.78125Gbps	5m	0~70
10G SFP+ DAC	10.52Gbps	7m	0~70