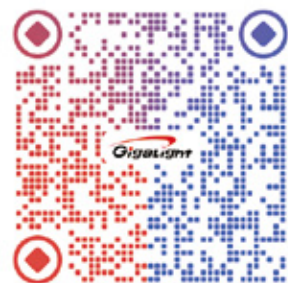




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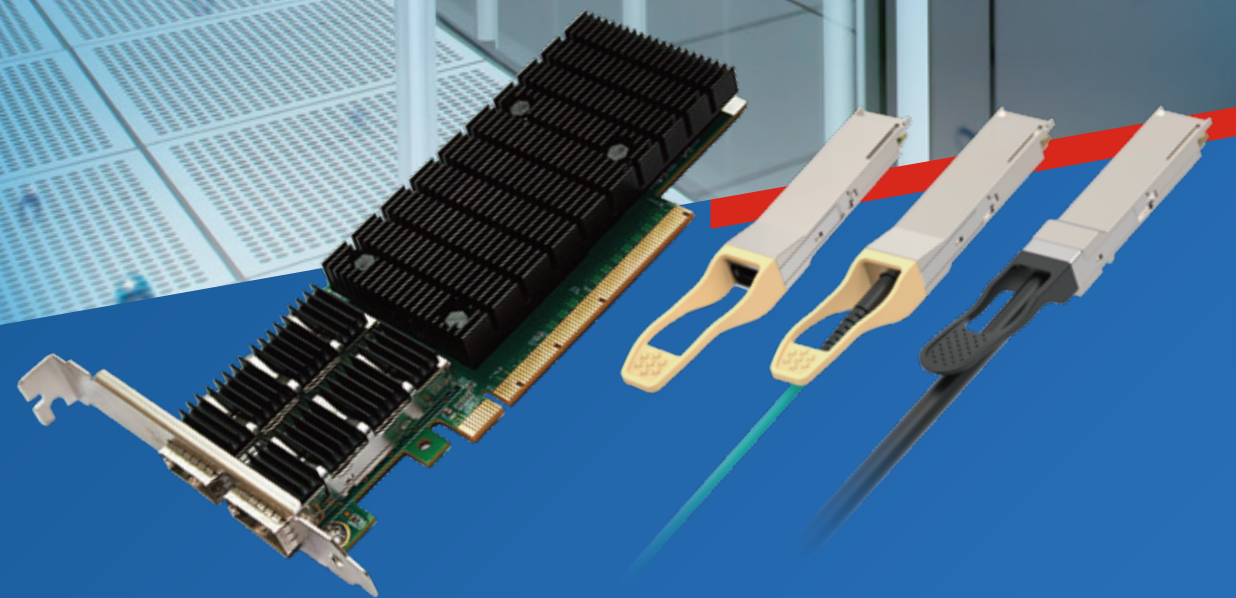
High-Speed Interconnect Hardware and Liquid Cooling Solutions for Server & HPC

| For Air Conditioning Cooling Environment

Network Adapters, Transceivers, AOC/DAC, Loopbacks

| For Immersion Liquid Cooling Environment

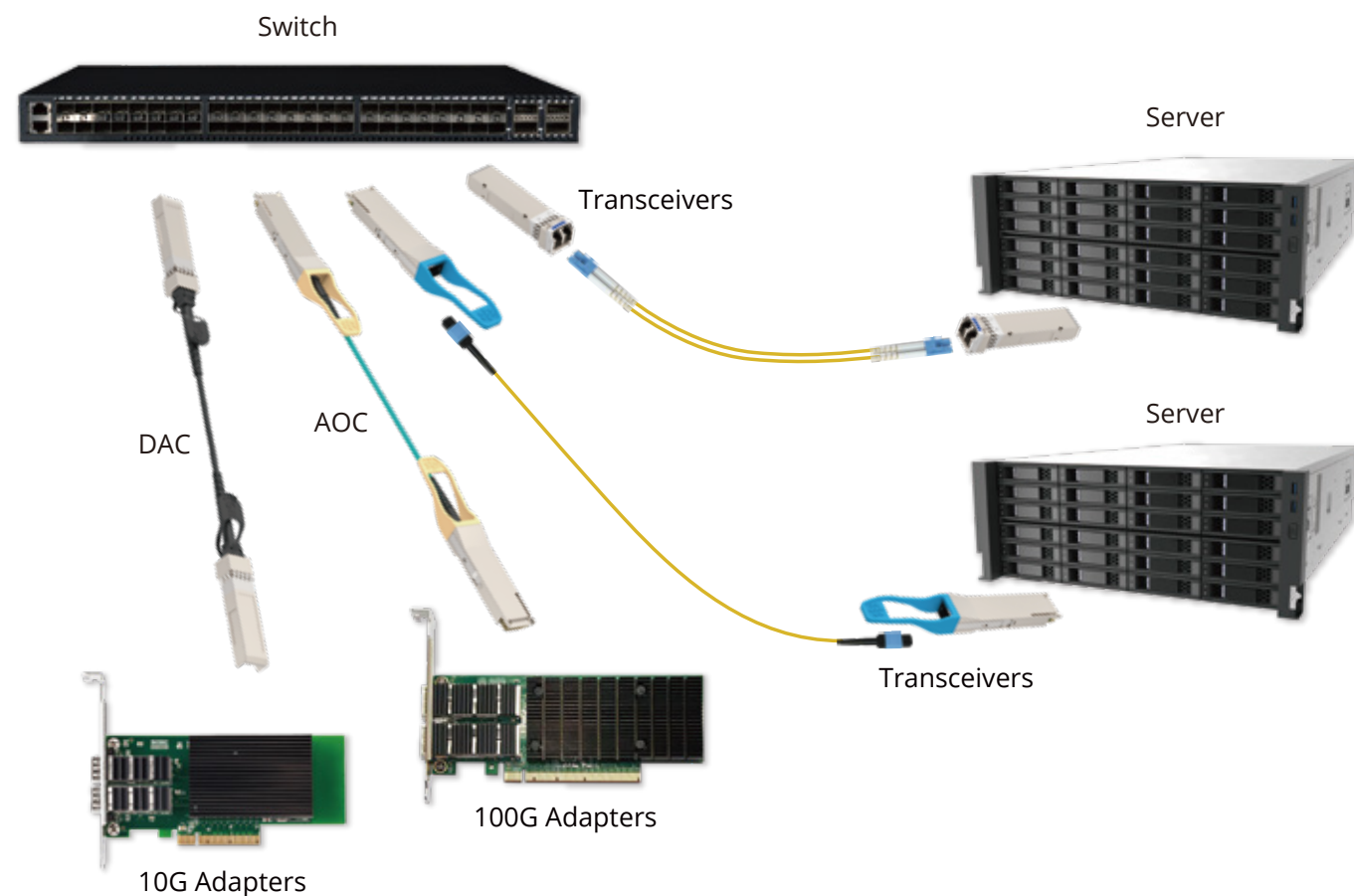
Immersion Liquid Cooling Transceivers, DAC & Extenders



For Air Conditioning Cooling Environment

GIGALIGHT offers a range of Ethernet network adapters for server & HPC applications in the air conditioning cooling environment, along with associated pluggable transceiver modules, Active Optical Cables (AOC) and Passive Direct Attached Copper Cables (Passive DAC, or PCC).

Connectivity Diagram



10G Connectivity

Ethernet Network Adapters



GL-82599EN-F1

- Intel 82599EN controller
- 1x10G SFP+ port
- 10Gbps Max BW
- PCIe v2.0, 5.0GT/s
- 4.5W Max Power

GL-82599ES-F2

- Intel 82599ES controller
- 2x10G SFP+ port
- 20Gbps Max BW
- PCIe v2.0, 5.0GT/s
- 6.6W Max Power

GL-X710BM2-F2

- Intel X710-BM2 controller
- 2x10G SFP+ port
- 20Gbps Max BW
- PCIe v3.0, 8.0GT/s
- 6.9W Max Power

GL-XL710BM1-F4

- Intel XL710-BM1 controller
- 4x10G SFP+ port
- 40Gbps Max BW
- PCIe v3.0, 8.0GT/s
- 6.9W Max Power

10G Transceivers



P/N	Product	Description
GE-GB-P3RC	100M Copper SFP	10/100BASE-T, RJ-45, 100m, <1.2W, C-TEMP/I-TEMP
GE-GB-P1RC-E	1G Copper SFP	10/100/1000BASE-T, RJ-45, 100m, <1.05W, C-TEMP
GE-XB-P7RC	10G Copper SFP	RJ-45, 30m, <2.5W, C-TEMP
GPP-85192-SRx	10G SFP+ SR	850nm, Dual LC, 300m(OM3), <1W, C-TEMP/I-TEMP
GPP-31192-LRx	10G SFP+ LR	1310nm, Dual LC, 10km, <1W, C-TEMP/I-TEMP

10G AOC



P/N	Product	Description
GPP-MDO100-xxxC	10G SFP+ AOC	up to 300m(OM3), <1W, C-TEMP

10G DAC



P/N	Product	Description
GPP-PC192-xx(D)xxC	10G SFP+ PCC	up to 3m(30AWG)/7m(24AWG)

25G Connectivity

Ethernet Network Adapters



GL-XXV710AM2-F2

- Intel XXV710-AM2 controller
- 2×25G SFP28 port
- 50Gbps Max BW
- PCIe v3.0, 8GT/s
- 10.3W Max Power

GL-E810XXVAM2-F2

- Intel E810-XXVAM2 controller
- 2×25G SFP28 port
- 50Gbps Max BW
- PCIe v4.0, 16GT/s
- 20.8W Max Power

25G Optical Transceivers



P/N	Product	Description
GSS-MPO250-(e)SRx	25G SFP28 SR	1310nm, Dual LC, 10km, 1.5W/1.8W, C-TEMP/I-TEMP
GSS-SPO250-LRx	25G SFP28 LR	1310nm, Dual LC, 10km, 1.5W/1.8W, C-TEMP/I-TEMP

25G AOC



P/N	Product	Description
GSS-MDO250-xxxC	25G SFP28 AOC	70m(OM3) / 100m(OM4), < 1W, C-TEMP
GSS-MDO250-xxxxC	25G SFP28 AOC Enhanced	200m(OM3) / 300m(OM4), < 1W, C-TEMP

25G DAC



P/N	Product	Description
GPP-PC250-xxxxC	25G SFP28 PCC	up to 2m(30AWG) / 5m(26AWG)

40G Connectivity

Ethernet Network Adapters



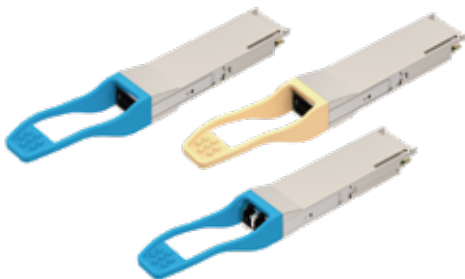
GL-XL710BM2-QF1

- Intel XL710-BM2 controller
- 1×40G QSFP+ port
- 40Gbps Max BW
- PCIe v3.0, 8.0GT/s
- 3.82W Max Power

GL-XL710BM2-QF2

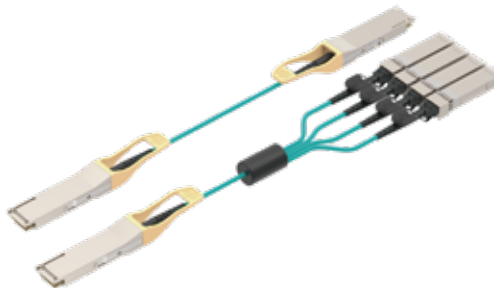
- Intel XL710-BM2 controller
- 2×40G QSFP+ port
- 80Gbps Max BW
- PCIe v3.0, 8GT/s
- 8.5W Max Power

40G Optical Transceivers



P/N	Product	Description
GQS-MPO400-SR4x	40G QSFP+ SR4	850nm, MPO, 100m/150m, < 1.5W, C-TEMP/I-TEMP
GQS-MPO400-SR4CP	40G QSFP+ eSR4	850nm, MPO, 300m/400m, < 1.5W, C-TEMP
GQM-SPO400-xR4C	40G QSFP+ PSM4	1310nm, MPO, 2km/10km, < 2.5W, C-TEMP
GQS-SPO400-xR4C	40G QSFP+ LR4	CWDM4, Dual LC, 2km/10km/20km, < 2.5W, C-TEMP/I-TEMP

40G AOC



P/N	Product	Description
GQS-MDO400-xxxC	40G QSFP+ AOC	300m(OM3) / 400m(OM4), < 1.5W, C-TEMP
GQP-MDO400-xxxC	40G QSFP+ to 4×10G SFP+ AOC	300m(OM3), < 1.5W, C-TEMP

40G DAC



P/N	Product	Description
GQS-PC400-(D)xxC	40G QSFP+ PCC	up to 3m(30AWG) / 5m(26AWG)
GQS-PC400-xxC	40G QSFP+ to 4×10G SFP+ PCC	up to 3m(30AWG)

100G Connectivity

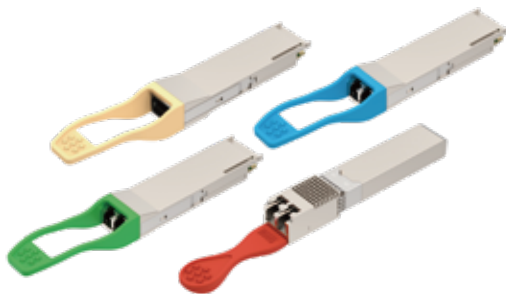
Ethernet Network Adapters



GL-E810CAM2-QF2

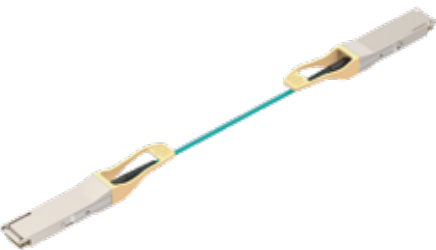
- Intel E810-CAM2 controller
- 2×100G QSFP28 port
- 200Gbps Max BW
- PCIe v4.0, 16GT/s
- 20.8W Max Power

100G Optical Transceivers



P/N	Product	Description
GQS-MPO101-(e)SR4x	100G QSFP28 SR4	850nm, MPO, 100m/300m, < 2W, C-TEMP/I-TEMP
GQM-SPO101-xR4x	100G QSFP28 PSM4	1310nm, MPO, 2km/10km, < 3.5W, C-TEMP/I-TEMP
GQS-SPO101-CxR4x	100G QSFP28 CWDM4/CLR4	CWDM4, Dual LC, 2km/10km, < 3.5W, C-TEMP/I-TEMP
GQS-SPO101-LR4x	100G QSFP28 LR4	LWDM4, Dual LC, 10km, < 3.5W, C-TEMP/I-TEMP
GQS-SI101DR1C	SiPh 100G QSFP28 DR1	1310nm, Dual LC, 500m, < 4W, C-TEMP
GQS-SI101FR1C	SiPh 100G QSFP28 FR1	1310nm, Dual LC, 2km, < 4W, C-TEMP
GQS-SI101LR1C	SiPh 100G QSFP28 LR1	1310nm, Dual LC, 10km, < 4W, C-TEMP
GSD-SPO101-FR1C	100G SFP-DD FR1	1310nm, Dual LC, 2km, < 3.5W, C-TEMP
GSD-SPO101-LR1C	100G SFP-DD LR1	1310nm, Dual LC, 10km/20km, < 4.5W, C-TEMP
GSD-SPO101-ER1C	100G SFP-DD ER1	1310nm, Dual LC, 30km/40km, < 5W, C-TEMP

100G AOC



P/N	Product	Description
GQS-MDO101-xxxC	100G QSFP28 AOC	70m(OM3) / 100m(OM4), < 2W, C-TEMP
GQS-MDO101-xxxxC	100G QSFP28 AOC Enhanced	200m(OM3) / 300m(OM4), < 2W, C-TEMP

100G DAC



P/N	Product	Description
GQS-PC101-xxC	100G QSFP28 PCC	up to 3m(30AWG) / 5m(26AWG)
GQS-4P28-PxxC	100G QSFP28 to 4×25G SFP28 PCC	up to 3m(30AWG) / 5m(26AWG)

200G Connectivity

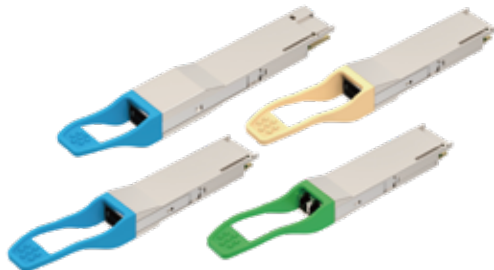
Ethernet Network Adapters



GL-C6DX-QF1

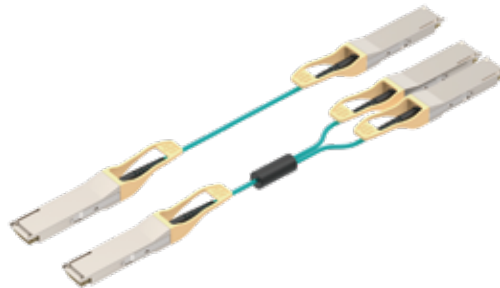
- NVIDIA ConnectX-6 Dx controller
- 1×200G QSFP56 port
- 200Gbps Max BW
- PCIe v5.0, 32GT/s
- 19.3W Max Power

200G Optical Transceivers



P/N	Product	Description
GQS-MPO201-SR4C	200G QSFP56 SR4	850nm, MPO, 70/100m, < 5W, C-TEMP
GQM-SPO201-DR4C	200G QSFP56 DR4	1310nm, MPO, 500m, < 55W, C-TEMP
GQS-SPO201-FR4C	200G QSFP56 FR4	CWDM4, Dual LC, 2km, < 6W, C-TEMP
GQD-MPO401-SR8C	200G QSFP-DD SR8	850nm, MPO, 100m, < 4W, C-TEMP/I-TEMP
GDM-SPO201-LR8C	200G QSFP-DD PSM8	1310nm, MPO, 2km/10km, < 6W/ < 6.5W, C-TEMP/I-TEMP

200G AOC



P/N	Product	Description
GQD-MPO201-xxxC	200G QSFP28-DD AOC	70m(OM3) / 100m(OM4), < 4W, C-TEMP
GQS-MDO201-xxxC(L)	200G QSFP56 AOC	70m(OM3) / 100m(OM4/OM5), < 5W, C-TEMP
GQQ2-MDO201-xxxC	200G QSFP56 AOC to 2×100G QSFP28 AOC	70m(OM3) / 100m(OM4/OM5), < 5W(200G)/ 4.5W(100G), C-TEMP

200G DAC



P/N	Product	Description
GQS-PC201-(D)xxC	200G QSFP56 PCC	up to 2m(30AWG) / 3m(26AWG)
GQD-PC201-xxC	200G QSFP28-DD PCC	up to 3m(30AWG) / 5m(26AWG)
GQD-AC201-xxC	200G QSFP56 ACC	up to 7m

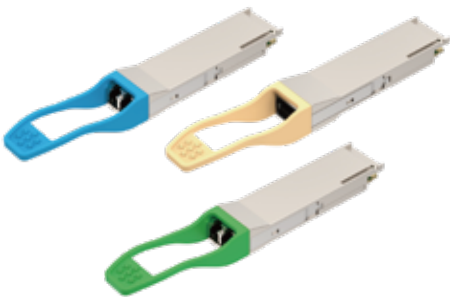
400G Connectivity

Ethernet Network Adapters



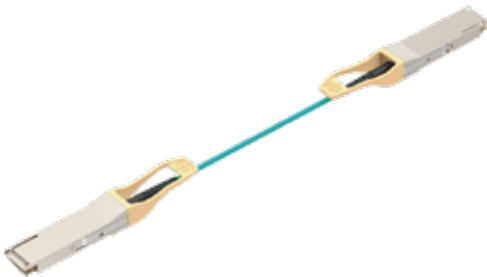
- GL-CX7-QD1**
- NVIDIA ConnectX-7 controller
 - 1/2×400G QSFP112 port
 - 400Gbps Max BW
 - PCIe v5.0, 32GT/s
 - TBD Max Power

400G Optical Transceivers



P/N	Product	Description
GQS-MPO401-SR4C	400G QSFP112 SR4	850nm, MPO, 70m/100m, < 8.5W, C-TEMP
GQS-SI401DR4C	SiPh 400G QSFP112 DR4	1310nm, MPO, 500m, < 10W, C-TEMP
GQS-SI401FR4C	SiPh 400G QSFP112 DR4+	1310nm, MPO, 2km, < 10W, C-TEMP
GQS-SPO401-FR4C	SiPh 400G QSFP112 FR4	1310nm, Dual LC, 2km, < 10W, C-TEMP
GQS-SPO401-LS4C	SiPh 400G QSFP112 CWDM4	1310nm, Dual LC, 6km, < 10W, C-TEMP

400G AOC



P/N	Product	Description
GQS-MDO401-xxxC	400G QSFP112 AOC	70m(OM3) / 100m(OM4/OM5), 8.5 < W, C-TEMP

400G DAC



P/N	Product	Description
GQS-PC401-(D)xxC	400G QSFP112 PCC	up to 2m
GQD-AC401-xxC	400G QSFP112 ACC	up to 7m

Electrical Loopback Modules

GIGALIGHT Electrical Loopback Modules are available in different form factors for a variety of board-level testing and provide cost-effective port testing solutions for data center customers.



Features

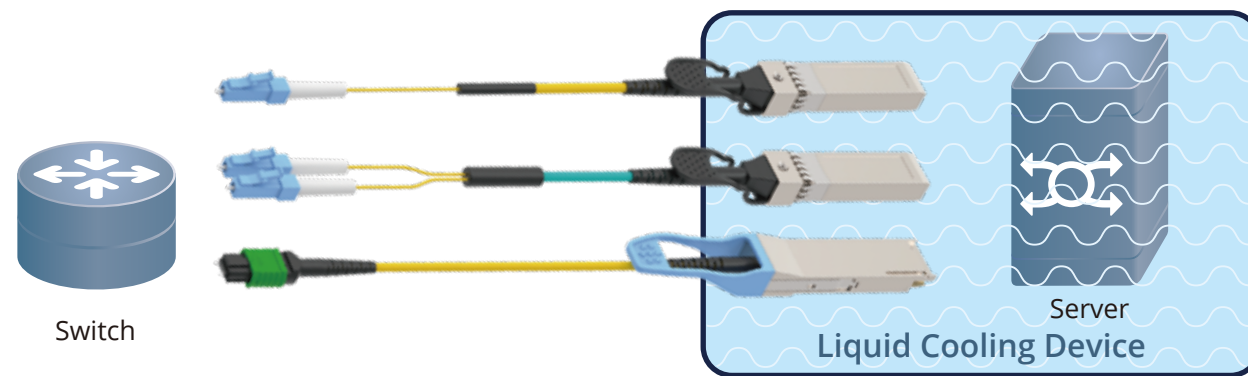
- Hot-pluggable MSA-compliant active electrical loopback modules
- Data rate up to 25.78125-425Gbps
- Low power consumption
- Commercial case operating temperature range of 0°C to 70°C
- Single 3.3V power supply
- RoHS compliant

P/N	Description
GSS-MPO250-LP	25G SFP28 Loopback
GQS-MPO101-LP	100G QSFP28 Loopback
GQS-MPO201-LP4C	200G QSFP56 Loopback
GQD-MPO201-LP8C	200G QSFP-DD Loopback
GQD-MPO401-LP8C	400G QSFP-DD Loopback

For Immersion Liquid Cooling Environment

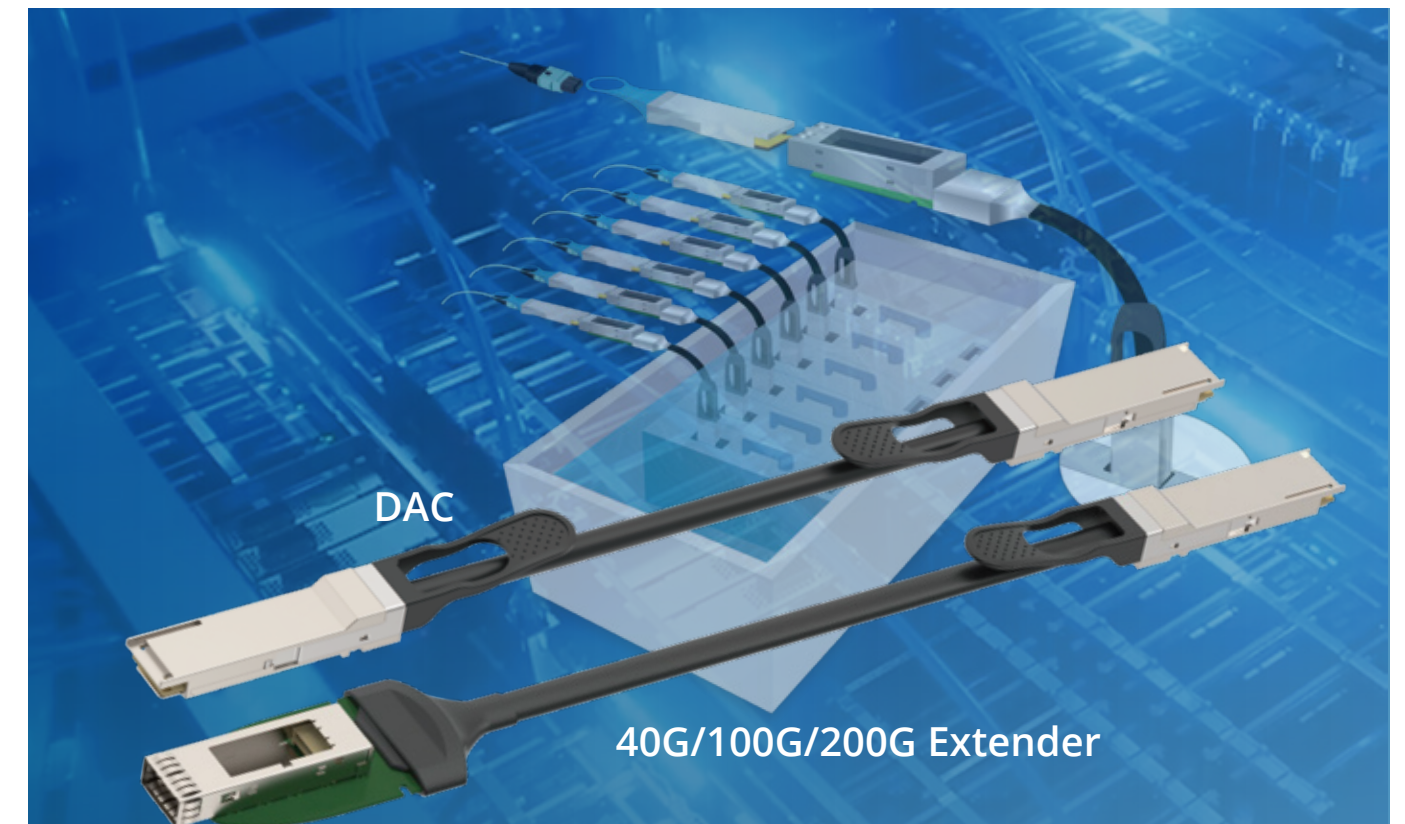
GIGALIGHT offers a range of immersion liquid cooling products for server & HPC applications in the immersion liquid cooling environment, including pluggable transceiver modules with pigtails, Passive Direct Attached Copper Cables (Passive DAC, or PCC) and extenders.

Immersion Liquid Cooling Transceivers



P/N	Description
GL-S192SR-L(D)xx	10G SFP+ SR 850nm 300m LC Pigtail
GL-S192SR-F(D)xx	10G SFP+ SR 850nm 400m FC Pigtail
GL-S100LR-L(D)xx	10G SFP+ LR 1310nm 10km LC Pigtail
GL-S100LR-F(D)xx	10G SFP+ LR 1310nm 10km FC Pigtail
GL-S100LR-L(D)xx	10G SFP+ LR 1270nm/1310nm 10km LC Pigtail
GL-S100LR-F(D)xx	10G SFP+ LR 1270nm/1310nm 10km FC Pigtail
GL-S250SR-L(D)xx	25G SFP28 SR 850nm 100m, Dual LC Pigtail
GL-S250eSR-L(D)xx	25G SFP28 eSR 850nm 300m, Dual LC Pigtail
GL-S250LR-L(D)xx	25G SFP28 LR 1310nm 10km, Dual LC Pigtail
GL-S25023LR-L(D)xx	25G SFP28 BiDi LR 1270/1330nm 10km, Dual LC Pigtail
GL-S25032LR-L(D)xx	25G SFP28 BiDi LR 1330/1270nm 10km, Dual LC Pigtail
GL-Q400SR4-M(D)xx	40G QSFP+ SR4 850nm 70m/100m MPO12 Pigtail
GL-Q101PIR4-M(D)xx	100G QSFP28 PSM4 1310nm 2km, MPO12 Pigtail
GL-Q101PLR4-M(D)xx	100G QSFP28 PSM4 1310nm 10km, MPO12 Pigtail
GL-Q101SR4-M(D)xx	100G QSFP28 SR4 850nm 100m, MPO12 Pigtail
GL-Q101eSR4-M(D)xx	100G QSFP28 eSR4 850nm 300m, MPO12 Pigtail
GL-Q201SR4-M(D)xx	200G QSFP56 SR4 850nm 100m, MPO12 Pigtail
GL-Q401SR4-M(D)xx	400G QSFP112 SR4 850nm 100m MPO12 Pigtail

Immersion Liquid Cooling DAC & Extender



Highlights

- 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
- RoHS compliant

Liquid Cooling Immersible 40G/100G/200G Extender

Product Name	Package Type	AWG	Length	Temperature (°C)
Immersible 40G QSFP Extender	QSFP+ to QSFP+Flat Cage	30AWG	up to 50cm	0~60
Immersible 100G QSFP28 Extender	QSFP28 to QSFP28 Flat Cage	30AWG	up to 50cm	0~60
Immersible 200G QSFP56 Extender	QSFP56 to QSFP56 Flat Cage	30AWG	up to 50cm	0~60