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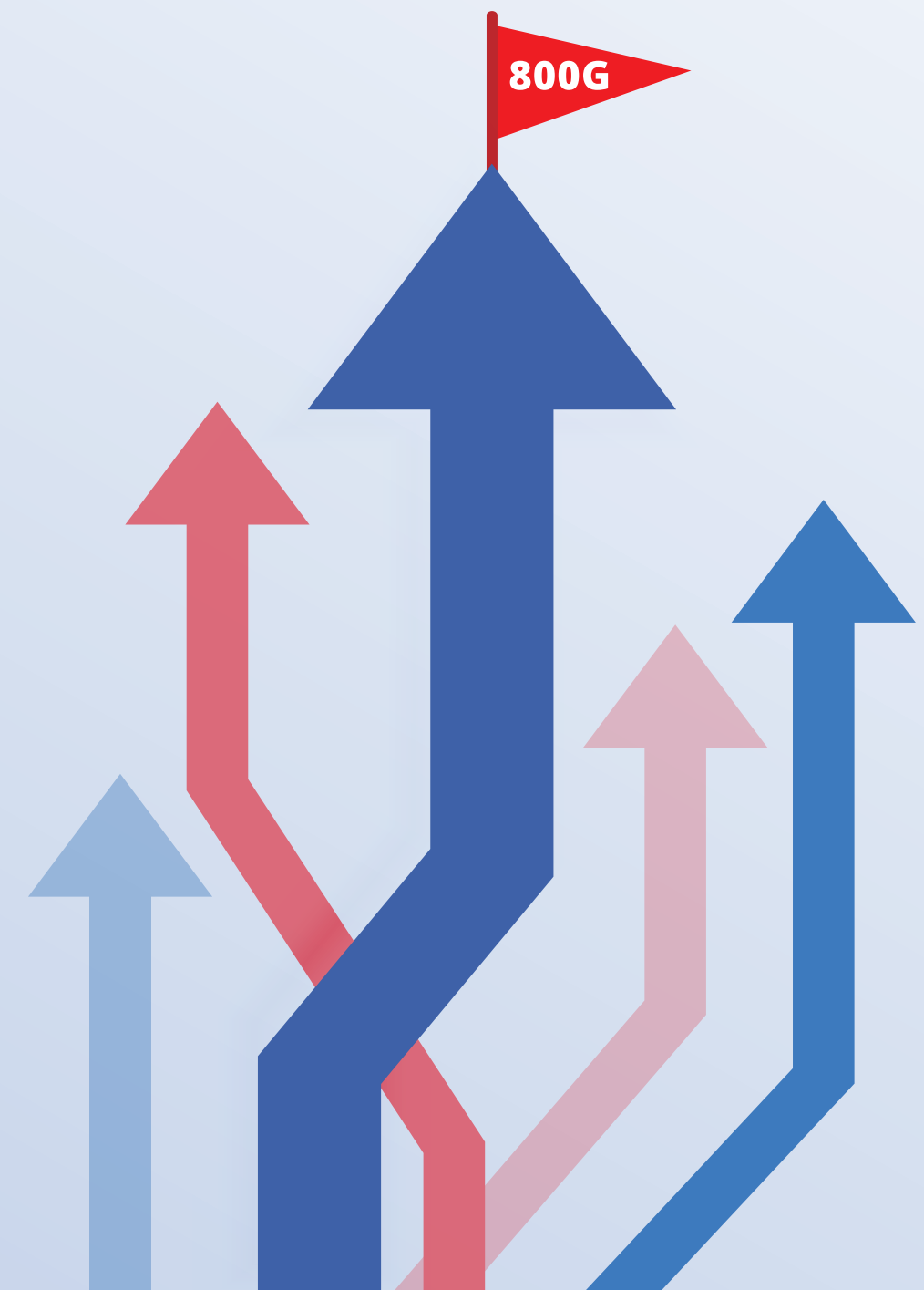
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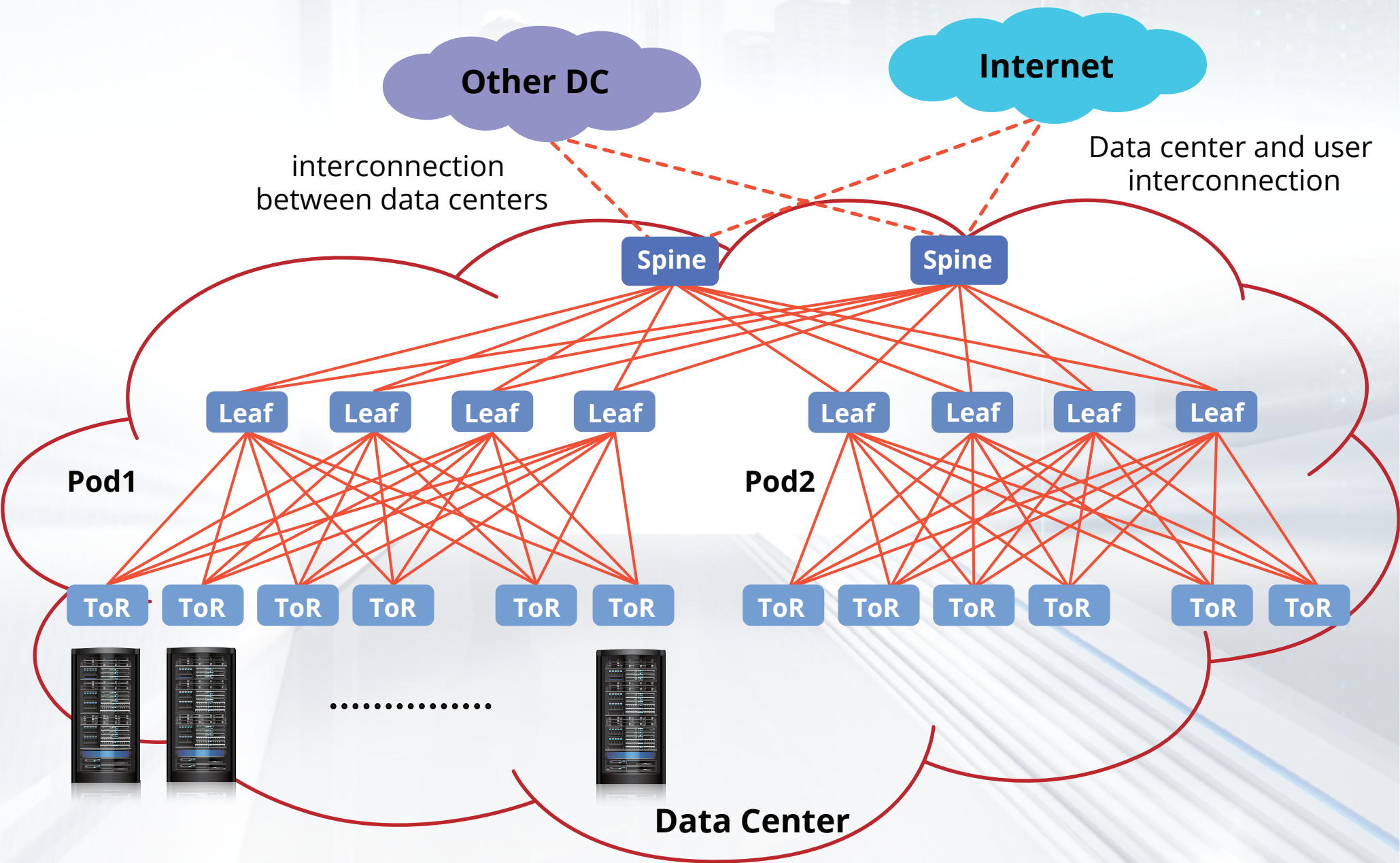
OPEN DATA CENTER INTERCONNECTION CABLES AND OPTICAL TRANSCEIVERS PRODUCT BROCHURE



Company Profile

GIGALIGHT was established in 2006. It is an outstanding brand enterprise in the field of global optical communications, as well as an outstanding technology innovator and market application explorer in the field of global open optical network devices. GIGALIGHT focuses on developing decoupled optical network modules and subsystems to reduce CAPEX and OPEX for system deployment of data centers and telecom operators.

Data Center Network Architecture



Optical Module Installation Features

>10km	Data center external interconnection
<2km	Interconnection between Leaf and Spine switches
<500m	Interconnection between ToR and Leaf switches
<20m	Internal Interconnection of Cabinet Servers

CONTENT

DAC

DAC 1×1 -----03-05

SFP to SFP 10G/25G/50G
QSFP to QSFP 40G/56G/100G/200G/400G
QSFP-DD to QSFP-DD QSFP-DD 200G/400G/800G

DAC 1×N Breakout -----06-08

QSFP to SFP 40G/100G/200G
QSFP-DD to QSFP 200G/400G/800G
QSFP-DD to SFP 200G/400G

AOC

AOC 1×1-----10-14

SFP to SFP 10G/25G/32G/50G
QSFP to QSFP 40G/56G/100G/128G/200G
CXP to CXP 120G
SFP-DD to SFP-DD 100G
QSFP-DD to QSFP-DD 200G/400G

DAC 1×N Breakout-----15-19

QSFP to QSFP 100G/200G
QSFP to SFP 40G/100G/200G
QSFP-DD to QSFP 200G/400G
CXP to QSFP 120G
QSFP-DD to SFP 200G/400G

Transceivers

Ethernet-----21-25

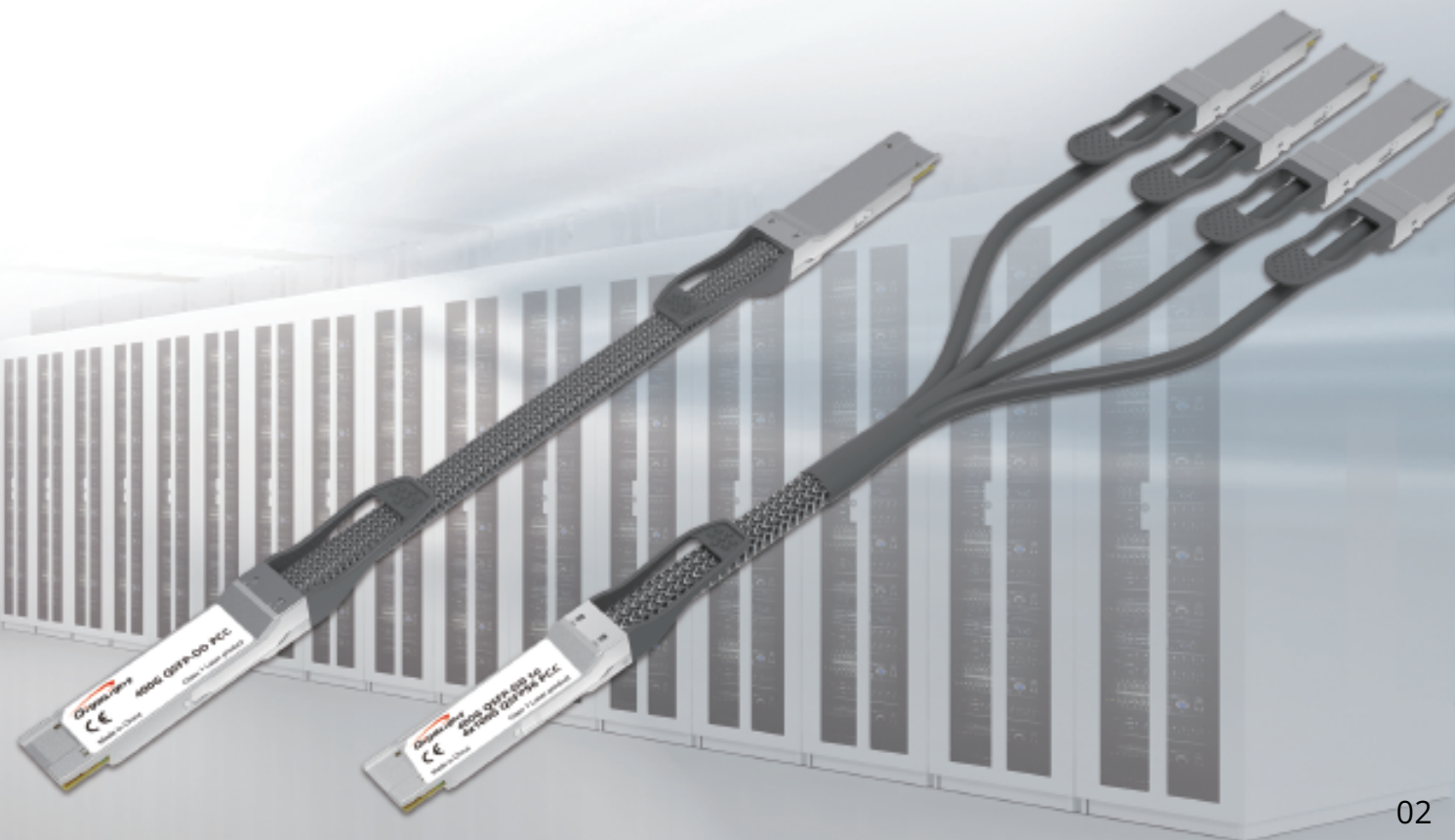
SFP 10GE/25GE/50GE
SFP-DD 100GE
QSFP 40GE/100GE/200GE
QSFP-DD 200GE/400GE/800GE

Fibre Channel-----25-27

SFP 16GFC/32GFC
QSFP 4x16GFC/4x32GFC

The Solid Backing of Data Center Server Network

- ▶ SI Simulation
- ▶ Automation Equipment and processes
- ▶ Extreme Parameters (S/COM)
- ▶ Product & Installation Reliability



DAC 1×1

■ SFP to SFP 10G/25G/50G

Features

- Single-channel full-duplex passive 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 70C
- EEPROM customized with I2C interface
- Enhanced EMI/EMC performance
- RoHS compatible (lead free)



Product	Max. Data Rate (Gbps)	Network Application	Standard	Max. Length (Meter)
10G SFP+ PCC	10.52	Ethernet Fibre Channel	10GBASE-CU 10GFC	7
25G SFP28 PCC	25.78125	Ethernet	25GBASE-CR	5
50G SFP56 PCC	53.125	Ethernet	50GBASE-CR	3

Ordering Information

10G SFP+ PCC

P/N	Length (Meter)	AWG
GPP-PC192-30D05C	0.5	30
GPP-PC192-3001C	1	30
GPP-PC192-30D15C	1.5	30
GPP-PC192-3002C	2	30
GPP-PC192-30D25C	2.5	30
GPP-PC192-3003C	3	30
GPP-PC192-2404C	4	24
GPP-PC192-2405C	5	24
GPP-PC192-2406C	6	24
GPP-PC192-2407C	7	24

25G SFP28 PCC

P/N	Length (Meter)	AWG
GPP-PC250-30D05C	0.5	30
GPP-PC250-3001C	1	30
GPP-PC250-30D15C	1.5	30
GPP-PC250-3002C	2	30
GPP-PC250-30D25C	2.5	26
GPP-PC250-2603C	3	26
GPP-PC250-2604C	4	26
GPP-PC250-2605C	5	26

50G SFP56 PCC

P/N	Length (Meter)	AWG
GSS-PC560-D05C	0.5	30
GSS-PC560-01C	1	30
GSS-PC560-D15C	1.5	30
GSS-PC560-02C	2	30
GSS-PC560-D25C	2.5	26
GSS-PC560-03C	3	26

DAC 1×1

■ QSFP to QSFP 40G/56G/100G/200G/400G

Features

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



Product	Max. Data Rate (Gbps)	Network Application	Standard	Max. Length (Meter)
40G QSFP+ PCC	41.25	Ethernet InfiniBand	40GBASE-CR4 QDR	5
56G QSFP+ PCC	56.25	InfiniBand	FDR	5
100G QSFP28 PCC	103.125	Ethernet InfiniBand	100GBASE-CR4 EDR	5
200G QSFP56 PCC	212.5	Ethernet InfiniBand	200GBASE-CR4 HDR	3
400G QSFP112 PCC	425	Ethernet	400GBASE-CR4	3

Ordering Information

40G/56G QSFP+ PCC

P/N	Length (Meter)	AWG
GQS-PC400-30D05C	0.5	30
GQS-PC400-3001C	1	30
GQS-PC400-3002C	2	30
GQS-PC400-3003C	3	30
GQS-PC400-2604C	4	26
GQS-PC400-2605C	5	26
GQS-PC560-3001C	1	30
GQS-PC560-3002C	2	30
GQS-PC560-3003C	3	30
GQS-PC560-2604C	4	26
GQS-PC560-2605C	5	26

100G QSFP28 PCC

P/N	Length (Meter)	AWG
GQS-PC101-01C	1	30
GQS-PC101-02C	2	30
GQS-PC101-03C	3	30/26
GQS-PC101-04C	4	26
GQS-PC101-05C	5	26

400G QSFP112 PCC

P/N	Length (Meter)	AWG
GQS-PC401-01C	1	30
GQS-PC401-02C	2	30
GQS-PC401-03C	3	26

200G QSFP56 PCC

P/N	Length (Meter)	AWG
GQS-PC201-01C	1	30
GQS-PC201-02C	2	30
GQS-PC201-03C	3	26

DAC 1×1

■ QSFP-DD to QSFP-DD 200G/400G/800G

Features

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



Product	Max. Data Rate (Gbps)	Network Application	Standard	Max. Length (Meter)
200G QSFP-DD PCC	206.25	Ethernet	100GBASE-CR4	3
400G QSFP-DD PCC	425	Ethernet	400GBASE-CR8	3
800G QSFP-DD PCC	850	Ethernet	800GBASE-CR8	2

Ordering Information

200G QSFP-DD PCC

P/N	Length (Meter)	AWG
GQD-PC201-01C	1	30
GQD-PC201-02C	2	30
GQD-PC201-03C	3	26

400G QSFP-DD PCC

P/N	Length (Meter)	AWG
GQD-PC401-01C	1	30
GQD-PC401-02C	2	30
GQD-PC401-03C	3	26

800G QSFP-DD PCC

P/N	Length (Meter)	AWG
GQD-PC801-01C	1	30
GQD-PC801-02C	2	30

DAC 1×N Breakout

■ QSFP to SFP 40G/100G/200G

Features

- 4-channel full-duplex passive twinax copper cable
- 26, 28, or 30 AWG optional
- Hot-pluggable QSFP/SFP MSA-compliant connectors
- Compliant with CMIS, SFF-8636 and SFF-8665
- Compliant with SFF-8402, SFF-8431 and SFF-8432
- Case operating temperature range: 0 to 70C
- EEPROM customized with I2C interface
- Enhanced EMI/EMC performance
- RoHS compatible (lead free)



Product	Max. Data Rate (Gbps)	Network Application	Standard	Max. Length (Meter)
40G QSFP+ to 4×10G SFP+ Breakout PCC	41.25 4×10.3125	Ethernet	40GBASE-CR4 10GBASE-CU	5
100G QSFP28 to 4×25G SFP28 Breakout PCC	103.125 4×25.78125	Ethernet	100GBASE-CR4 25GBASE-CR	5
200G QSFP56 to 4×50G SFP56 Breakout PCC	212.5 4×53.125	Ethernet	200GBASE-CR4 50GBASE-CR	5

Ordering Information

40G QSFP+ to 4×10G SFP+ Breakout PCC

P/N	Length (Meter)	AWG
GQS-4SFP+PC-D05C	0.5	30
GQS-4SFP+PC-01C	1	30
GQS-4SFP+PC-02C	2	30
GQS-4SFP+PC-03C	3	30
GQS-4SFP+PC-04C	4	28
GQS-4SFP+PC-05C	5	28

100G QSFP28 to 4×25G SFP28 Breakout PCC

P/N	Length (Meter)	AWG
GQS-4P28-P01C	1	30
GQS-4P28-P02C	2	30
GQS-4P28-P03C	3	30/26
GQS-4P28-P04C	4	26
GQS-4P28-P05C	5	26

200G QSFP56 to 4×50G SFP56 Breakout PCC

P/N	Length (Meter)	AWG
GQS-4P56-P01C	1	30
GQS-4P56-P02C	2	30
GQS-4P56-P03C	3	26

DAC 1×N Breakout

■ QSFP-DD to QSFP 200G/400G/800G

Features

- 8-channel full-duplex passive twinax copper cable
- 26 or 30 AWG optional
- Hot-pluggable QSFP-DD/QSFP 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	Max. Data Rate (Gbps)	Network Application	Standard	Max. Length (Meter)
200G QSFP-DD to 4×50G QSFP28 Breakout PCC	206.25 4×51.5625	Ethernet	100GBASE-CR4 25GBASE-CR	3
400G QSFP-DD to 4×100G QSFP56 Breakout PCC	425 4×106.25	Ethernet	400GBASE-CR8 100GBASE-CR2	3
400G QSFP-DD to 2x200G QSFP56 Breakout PCC	425 2x212.5	Ethernet	400GBASE-CR8 200GBASE-CR4	3
800G QSFP-DD to 2x400G QSFP112 Breakout PCC	850 2x425	Ethernet	800GBASE-CR8 400GBASE-CR4	2

Ordering Information

200G QSFP-DD to 4x 50G QSFP28 Breakout PCC

P/N	Length (Meter)	AWG
GQD-4Q28P201-01C	1	30
GQD-4Q28P201-02C	2	30
GQD-4Q28P201-03C	3	26

400G QSFP-DD to 4x 100G QSFP56 Breakout PCC

P/N	Length (Meter)	AWG
GQD-4Q56P401-01C	1	30
GQD-4Q56P401-02C	2	30
GQD-4Q56P401-03C	3	26

400G QSFP-DD to 2x 200G QSFP56 Breakout PCC

P/N	Length (Meter)	AWG
GQD-2Q56P401-01C	1	30
GQD-2Q56P401-02C	2	30
GQD-2Q56P401-03C	3	26

800G QSFP-DD to 2x 400G QSFP112 Breakout PCC

P/N	Length (Meter)	AWG
GQD-2QP801-01C	1	30
GQD-2QP801-02C	2	30

DAC 1×N Breakout

■ QSFP-DD to SFP 200G/400G

Features

- 8-channel full-duplex passive twinax copper cable
- 26 or 30 AWG optional
- Hot-pluggable QSFP-DD/SFP MSA-compliant connectors
- Compliant with CMIS, SFF-8636 and SFF-8665
- Compliant with SFF-8402 and SFF-8432
- Case operating temperature range: 0 to 70C
- EEPROM customized with I2C interface
- Enhanced EMI/EMC performance
- RoHS compatible (lead free)



Product	Max. Data Rate (Gbps)	Network Application	Standard	Max. Length (Meter)
200G QSFP-DD to 8×25G SFP28 Breakout PCC	206.25 8×25.78125	Ethernet	100GBASE-CR4 25GBASE-CR	3
400G QSFP-DD to 8×50G SFP56 Breakout PCC	425 8×53.125	Ethernet	400GBASE-CR8 50GBASE-CR	3

Ordering Information

200G QSFP-DD to 8x 25G SFP28 Breakout PCC

P/N	Length (Meter)	AWG
GQD-8S28P201-01C	1	30
GQD-8S28P201-02C	2	30
GQD-8S28P201-03C	3	26

400G QSFP-DD to 8x 50G SFP56 Breakout PCC

P/N	Length (Meter)	AWG
GQD-8S56P401-01C	1	30
GQD-8S56P401-02C	2	30
GQD-8S56P401-03C	3	26

The Most Trusted Active Optical Cables



Complete product line based on more than 10 years of R&D experience



World-renowned brand based on more than 3 million of shipment



Widely recognized by global data centers and deployed on a large scale

AOC 1×1

■ SFP to SFP 10G/25G/32G/50G

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	Max. Data Rate (Gbps)	Network Application	Standard	Max. Power Consumption (W)
10G SFP+ AOC	10.3125	Ethernet Fibre Channel	10GBASE-SR 4GFC/8GFC	0.8
25G SFP28 AOC	25.78125	Ethernet	25GBASE-SR	1
25G SFP28 AOC (Enhanced)	25.78125	Ethernet	25GBASE-SR	1
32GFC SFP28 AOC	28.05	Fibre Channel	32GFC SW	1
32GFC SFP28 AOC (Enhanced)	28.05	Fibre Channel	32GFC SW	1
50G SFP56 AOC	53.125	Ethernet	50GBASE-SR	2

Ordering Information

Product	P/N	Length
10G SFP+ AOC	GSS-MDO100-xxxC	Up to 300m over OM3 MMF or 400m over OM4 MMF (with FEC)
25G SFP28 AOC	GSS-MDO250-xxxC	Up to 70m over OM3 MMF or 100m over OM4 MMF (with FEC)
25G SFP28 AOC (Enhanced)	GSS-MDO250-exxxC	Up to 70m over OM3 MMF or 100m over OM4 MMF (without FEC) Up to 200m over OM3 MMF or 300m over OM4 MMF (with FEC)
32GFC SFP28 AOC	GSS-MDO280-xxxC	Up to 70m over OM3 MMF or 100m over OM4 MMF (with FEC)
32GFC SFP28 AOC (Enhanced)	GSS-MDO280-exxxC	Up to 70m over OM3 MMF or 100m over OM4 MMF (without FEC) Up to 200m over OM3 MMF or 300m over OM4 MMF (with FEC)
50G SFP56 AOC	GSS-MDO560-xxxC	Up to 70m over OM3 MMF or 100m over OM4 MMF (with FEC)

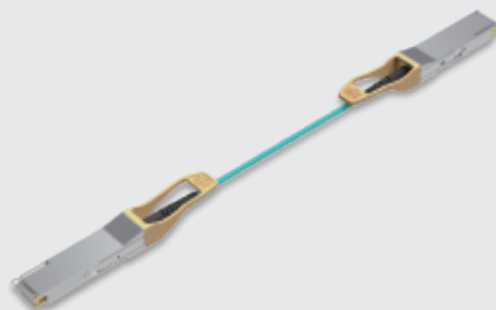
***Note** | The "xxx" in the P/N means the Length, e.g., 001 means 1 meter, 002 means 2 meters, 010 means 10 meters, 100 means 100 meters, etc.

AOC 1×1

■ QSFP to QSFP 40G/56G/100G/128G/200G

Features

- 4-channel full-duplex active optical cable
- 850nm VCSEL transmitter and PIN receiver
- Hot-pluggable QSFP 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	Max. Data Rate (Gbps)	Network Application	Standard	Max. Power Consumption (W)
40G QSFP+ AOC	41.25	Ethernet InfiniBand	40GBASE-SR4 SDR/DDR/QDR	1.5
56G QSFP+ AOC	56.25	Fibre Channel InfiniBand	16GFC FDR	1.5
100G QSFP28 AOC	103.125	Ethernet InfiniBand	40G/100GBASE-SR4 FDR/EDR	2
100G QSFP28 AOC (Enhanced)	103.125	Ethernet InfiniBand	40G/100GBASE-SR4 FDR/EDR	2
128GFC QSFP28 AOC	112.2	Ethernet Fibre Channel	100GBASE-SR4 128GFC SW4	2
128GFC QSFP28 AOC (Enhanced)	112.2	Ethernet Fibre Channel	100GBASE-SR4 128GFC SW4	2
100G QSFP28 AOC (SR1.2)	106.25	Ethernet	100GBASE-SR 1.2	3
200G QSFP56 AOC (DSP)	212.5	Ethernet	100/200GBASE-SR4	5
200G QSFP56 AOC Lite (CDR)	212.5	Ethernet	100/200GBASE-SR4	4

Ordering Information

Product	P/N	Length
40G QSFP+ AOC	GQS-MDO400-xxxC	Up to 300m over OM3 MMF or 400m over OM4 MMF (with FEC)
56G QSFP+ AOC	GQS-MDO560-xxxC	Up to 100m over OM3 MMF or 150m over OM4 MMF (with FEC)
100G QSFP28 AOC	GQS-MDO101-xxxC	Up to 70m over OM3 MMF or 100m over OM4 MMF (with FEC)
100G QSFP28 AOC (Enhanced)	GQS-MDO101-exxxC	Up to 70m over OM3 MMF or 100m over OM4 MMF (without FEC) Up to 200m over OM3 MMF or 300m over OM4 MMF (with FEC)
128GFC QSFP28 AOC	GQS-MDO111-xxxC	Up to 70m over OM3 MMF or 100m over OM4 MMF (with FEC)
128GFC QSFP28 AOC (Enhanced)	GQS-MDO111-exxxC	Up to 70m over OM3 MMF or 100m over OM4 MMF (without FEC) Up to 200m over OM3 MMF or 300m over OM4 MMF (with FEC)
100G QSFP28 AOC (SR1.2)	GQS-MDO101-BxxxC	Up to 100m over OM4 MMF or 150m over OM5 MMF (with FEC)
200G QSFP56 AOC (DSP)	GQS-MDO201-xxxC	Up to 70m over OM3 MMF or 100m over OM4/OM5 MMF (with FEC)
200G QSFP56 AOC Lite (CDR)	GQS-MDO201-xxxCW	Up to 35m over OM3 MMF (with FEC)

***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 1×1

■ CXP to CXP 120G

Features

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



Product	Max. Data Rate (Gbps)	Network Application	Standard	Max. Power Consumption (W)
120G CXP AOC	123.75	Ethernet InfiniBand	10GBASE-SR SDR/DDR/QDR	2.5

Ordering Information

Product	P/N	Length
120G CXP AOC	GCX-MDO121-xxxC	Up to 300m over OM3 MMF or 400m over OM4 MMF (with FEC)

***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 1×1

■ SFP-DD to SFP-DD 100G

Features

- 2-channel full-duplex active optical cable
- 850/900nm BiDi VCSEL transmitter and PIN receiver
- Hot-pluggable SFP-DD MSA-compliant connectors
- Compliant with CMIS, SFF-8402 and SFF-8432
- OM3, OM4 or OM5 MMF optional
- EEPROM customized with I2C interface
- RoHS compatible (lead free)



Product	Max. Data Rate (Gbps)	Network Application	Standard	Max. Power Consumption (W)
100G SFP-DD AOC	106.25	Ethernet	100GBASE-SR 1.2	3

Ordering Information

Product	P/N	Length
100G SFP-DD AOC	GSD-MDO 101-xxxC	Up to 100m over OM4 MMF or 150m over OM5 MMF (with FEC)

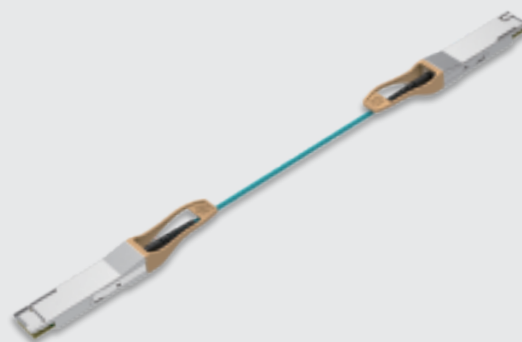
***Note** | The "xxx" in the P/N means the Length, e.g., 001 means 1 meter, 002 means 2 meters, 010 means 10 meters, 100 means 100 meters, etc.

AOC 1×1

■ QSFP-DD to QSFP-DD 200G/400G

Features

- 8-channel full-duplex active optical cable
- 850nm VCSEL transmitter and PIN receiver
- Hot-pluggable 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	Max. Data Rate (Gbps)	Network Application	Standard	Max. Power Consumption (W)
200G QSFP-DD AOC	206.25	Ethernet	100GBASE-SR4	4
400G QSFP-DD AOC	425	Ethernet	400GBASE-SR8 200GBASE-SR4	10

Ordering Information

Product	P/N	Length
200G QSFP-DD AOC	GQD-MDO201-xxxC	Up to 70m over OM3 MMF or 100m over OM4 MMF (with FEC)
400G QSFP-DD AOC	GQD-MDO401-xxxC	Up to 70m over OM3 MMF or 100m over OM4 MMF (with FEC)

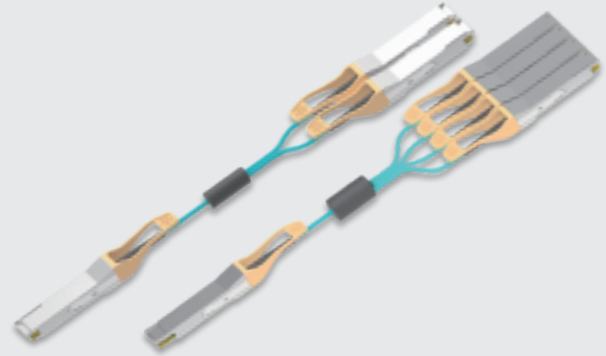
***Note** | The "xxx" in the P/N means the Length, e.g., 001 means 1 meter, 002 means 2 meters, 010 means 10 meters, 100 means 100 meters, etc.

AOC 1×N Breakout

■ QSFP to QSFP 100G/200G

Features

- 4-channel full-duplex active optical cable
- 850nm VCSEL transmitter and PIN receiver
- Hot-pluggable QSFP 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	Max. Data Rate (Gbps)	Network Application	Standard	End 1 Max. Power Consumption (W)	End 2 Max. Power Consumption (W)
100G QSFP28 to 2×50G QSFP28 Breakout AOC	103.125 51.5625	Ethernet	100GBASE-SR4 25GBASE-SR	2	1.5
200G QSFP56 to 2×100G QSFP56 Breakout AOC	212.5 106.25	Ethernet	200GBASE-SR4 100GBASE-SR2	5	4.5
200G QSFP56 to 4×50G QSFP56 Breakout AOC	212.5 53.125	Ethernet	200GBASE-SR4 50GBASE-SR	5	3

Ordering Information

Product	P/N	Length
100G QSFP28 to 2×50G QSFP28 Breakout AOC	GQQ2-MDO101-xxxC	Up to 70m over OM3 MMF or 100m over OM4 MMF (with FEC)
200G QSFP56 to 2×100G QSFP56 Breakout AOC	GQQ2-MDO201-xxxC	Up to 70m over OM3 MMF or 100m over OM4/OM5 MMF (with FEC)
200G QSFP56 to 4×50G QSFP56 Breakout AOC	GQQ4-MDO201-xxxC	Up to 70m over OM3 MMF or 100m over OM4/OM5 MMF (with FEC)

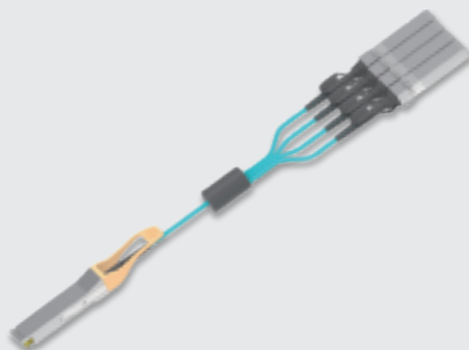
***Note** | The "xxx" in the P/N means the Length, e.g., 001 means 1 meter, 002 means 2 meters, 010 means 10 meters, 100 means 100 meters, etc.

AOC 1×N Breakout

■ QSFP to QSFP 40G/100G/200G

Features

- 4-channel full-duplex active optical cable
- 850nm VCSEL transmitter and PIN receiver
- Hot-pluggable QSFP MSA-compliant connectors
- Compliant with CMIS, SFF-8636 and SFF-8665
- Compliant with SFF-8402, SFF-8431 and SFF-8432
- OM3, OM4 or OM5 MMF optional
- EEPROM customized with I2C interface
- RoHS compatible (lead free)



Product	Max. Data Rate (Gbps)	Network Application	Standard	End 1 Max. Power Consumption (W)	End 2 Max. Power Consumption (W)
40G QSFP+ to 4×10G SFP+ Breakout AOC	41.25 4×10.3125	Ethernet	40GBASE-SR4 10GBASE-SR	1.5	0.8
100G QSFP28 to 4×25G SFP28 Breakout AOC	103.125 4×25.78125	Ethernet	100GBASE-SR4 25GBASE-SR	2	1
200G QSFP56 to 4×50G SFP56 Breakout AOC	212.5 4×53.125	Ethernet	200GBASE-SR4 50GBASE-SR	5	2

Ordering Information

Product	P/N	Length
40G QSFP+ to 4×10G SFP+ Breakout AOC	GQP-MDO400-xxxC	Up to 100m over OM3 MMF (with FEC)
100G QSFP28 to 4×25G SFP28 Breakout AOC	GQP-MDO101-xxxC	Up to 70m over OM3 MMF or 100m over OM4 MMF (with FEC)
200G QSFP56 to 4×50G SFP56 Breakout AOC	GQP-MDO201-xxxC	Up to 70m over OM3 MMF or 100m over OM4/OM5 MMF (with FEC)

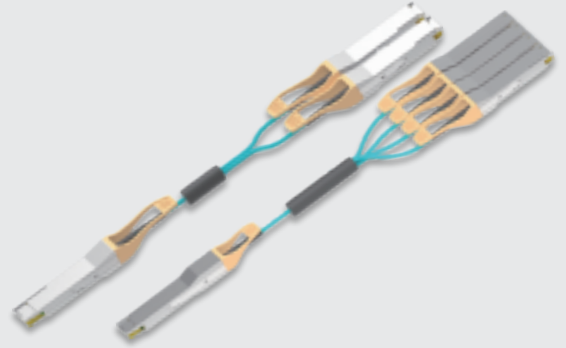
***Note** | The "xxx" in the P/N means the Length, e.g., 001 means 1 meter, 002 means 2 meters, 010 means 10 meters, 100 means 100 meters, etc.

AOC 1×N Breakout

■ QSFP-DD to QSFP 200G/400G

Features

- 8-channel full-duplex active optical cable
- 850nm VCSEL transmitter and PIN receiver
- Hot-pluggable QSFP-DD/QSFP 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	Max. Data Rate (Gbps)	Network Application	Standard	End 1 Max. Power Consumption (W)	End 2 Max. Power Consumption (W)
200G QSFP-DD to 2×100G QSFP28 Breakout AOC	206.25 2×103.125	Ethernet	100GBASE-SR4	4	2
200G QSFP-DD to 4×50G QSFP28 Breakout AOC	206.25 4×51.5625	Ethernet	400GBASE-SR8 200GBASE-SR4	4	1.5
400G QSFP-DD to 2×200G QSFP56 Breakout AOC	425 2×212.5	Ethernet	400GBASE-SR8 200GBASE-SR4	10	5
400G QSFP-DD to 4×100G QSFP56 Breakout AOC	425 4×106.25	Ethernet	400GBASE-SR8 100GBASE-SR2	10	4.5

Ordering Information

Product	P/N	Length
200G QSFP-DD to 2×100G QSFP28 Breakout AOC	GDA2-MDO201-xxxC	Up to 70m over OM3 MMF or 100m over OM4 MMF (with FEC)
200G QSFP-DD to 4×50G QSFP28 Breakout AOC	GDA2-MDO401-xxxC	Up to 70m over OM3 MMF or 100m over OM4 MMF (with FEC)
400G QSFP-DD to 2×200G QSFP56 Breakout AOC	GDA2-MDO401-xxxC	Up to 70m over OM3 MMF or 100m over OM4/OM5 MMF (with FEC)
400G QSFP-DD to 4×100G QSFP56 Breakout AOC	GDA4-MDO401-xxxC	Up to 70m over OM3 MMF or 100m over OM4/OM5 MMF (with FEC)

***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 1×N Breakout

■ CXP to QSFP 120G

Features

- 12-channel full-duplex active optical cable
- 850nm VCSEL transmitter and PIN receiver
- Hot-pluggable CXP/QSFP MSA-compliant connectors
- Compliant with SFF-8636 and SFF-8665
- OM2, OM3 or OM4 MMF optional
- EEPROM customized with I2C interface
- RoHS compatible (lead free)



Product	Max. Data Rate (Gbps)	Network Application	Standard	End 1 Max. Power Consumption (W)	End 2 Max. Power Consumption (W)
120G CXP to 3×40G QSFP+ Breakout AOC	123.75 3×41.25	Ethernet InfiniBand	10GBASE-SR 40GBASE-SR4 SDR/DDR/QDR	2.5	1.5

Ordering Information

Product	P/N	Length
120G CXP to 3×40G QSFP+ Breakout AOC	GCCQ-MDO121-xxxC	Up to 100m over OM3 MMF (with FEC)

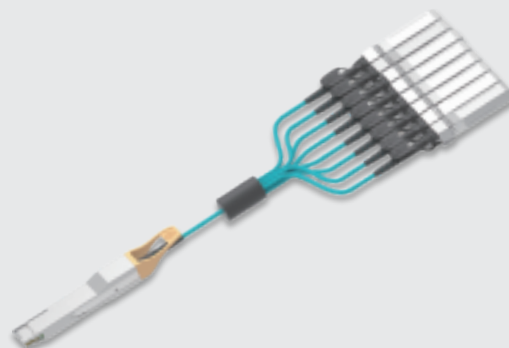
***Note** | The "xxx" in the P/N means the Length, e.g., 001 means 1 meter, 002 means 2 meters, 010 means 10 meters, 100 means 100 meters, etc.

AOC 1×N Breakout

■ QSFP-DD to SFP 200G/400G

Features

- 8-channel full-duplex active optical cable
- 850nm VCSEL transmitter and PIN receiver
- Hot-pluggable QSFP-DD/QSFP MSA-compliant connectors
- Compliant with CMIS, SFF-8636 and SFF-8665
- Compliant with SFF-8402 and SFF-8432
- OM3, OM4 or OM5 MMF optional
- EEPROM customized with I2C interface
- RoHS compatible (lead free)



Product	Max. Data Rate (Gbps)	Network Application	Standard	End 1 Max. Power Consumption (W)	End 2 Max. Power Consumption (W)
200G QSFP-DD to 8×25G SFP28 Breakout AOC	206.25 8×25.78125	Ethernet	100GBASE-SR4 25GBASE-SR	10	2
400G QSFP-DD to 8×50G SFP56 Breakout AOC	425 8×53.125	Ethernet	200G/400GBASE-SR4 50GBASE-SR	10	2

Ordering Information

Product	P/N	Length
200G QSFP-DD to 8×25G SFP28 Breakout AOC	GDS8-MDO201-xxxC	Up to 70m over OM3 MMF or 100m over OM4 MMF (with FEC)
400G QSFP-DD to 8×50G SFP56 Breakout AOC	GDS8-MDO401-xxxC	Up to 70m over OM3 MMF or 100m over OM4/OM5 MMF (with FEC)

***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.

Transceivers

Parallel
Transceivers



8-lane
Transceivers



Liquid Cooling
Transceivers



WDM
Transceivers



Silicon
Transceivers



Coherent
Transceivers



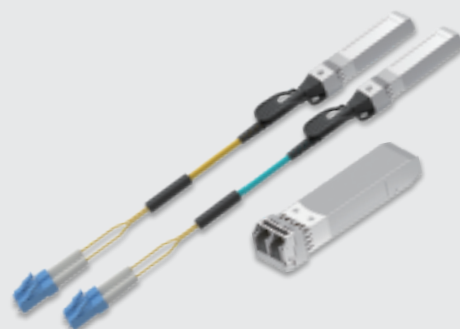
**One-Stop Data Center Integration
Solution - Optical Devices
Manufacturer - GIGALIGHT**

Ethernet

■ SFP 10GE/25GE/50GE

Features

- Single-channel full-duplex optical transceiver module
- Hot-pluggable SFP MSA-compliant form factor
- Compliant with SFF-8402, SFF-8431 and SFF-8432
- Data rate up to 10.3125Gbps, 25.78125Gbps or 53.125Gbps
- Submersible version optional for 10G SFP+ SR
- Submersible version optional for 25G SFP28 SR/LR
- EEPROM customized with I2C interface
- RoHS compatible (lead free)



Product	Standard	Transmitter	Receiver	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)	Dual LC	0 to 70	0.8	GPP-85192-SRC
10G SFP+SR (Submersible)	10GBASE-SR	850nm VCSEL	PIN	300m(OM3) 400m(OM4)	LC Pigtail FC Pigtail	0 to 60	0.8	GL-S192SR-L(D)xx GL-S192SR-F(D)xx
25G SFP28 SR	25GBASE-SR	850nm VCSEL	PIN	70m(OM3) 100m(OM4)	Dual LC	0 to 70 -40 to +85	1	GSS-MPO250-SRC GSS-MPO250-SRT
25G SFP28 SR (Enhanced)	25GBASE-SR	850nm VCSEL	PIN	200m(OM3) 300m(OM4)	Dual LC	0 to 70 -40 to +85	1	GSS-MPO250-eSRC GSS-MPO250-eSRT
25G SFP28 SR (Submersible)	25GBASE-SR	850nm VCSEL	PIN	70m(OM3) 100m(OM4)	LC Pigtail FC Pigtail	0 to 60	1	GL-S250SR-L(D)xx GL-S250SR-F(D)xx
25G SFP28 LR (Submersible)	25GBASE-LR	1310nm DML	PIN	10km(SMF)	LC Pigtail FC Pigtail	0 to 60	1	GL-S250LR-L(D)xx GL-S250LR-F(D)xx
50G SFP56 SR	50GBASE-SR	850nm VCSEL	PIN	70m(OM3) 100m(OM4)	Dual LC	0 to 70	2	GSS-MPO560-SRC

***Note** | The "(D)xx" in the P/N means the pigtail length, e.g., D05 means 0.5 meters, 01 means 1 meters, D15 means 1.5 meters, etc.

Ethernet

■ SFP-DD 100GE

Features

- 2-channel or single-channel full-duplex optical transceiver module
- Hot-pluggable SFP-DD MSA-compliant form factor
- Compliant with SFF-8402 and SFF-8432
- Data rate up to 106.25Gbps
- EEPROM customized with I2C interface
- RoHS compatible (lead free)



Product	Standard	Transmitter	Receiver	Reach	Optical Interface	Case Operating Temperature (°C)	Max. Power Consumption (W)	P/N
100G SFP-DD SR1.2	100GBASE-SR1.2	850/900nm BiDi VCSEL	PIN	100m(OM4) 150m(OM5)	Dual LC	0 to 70	3W	GSD-MPO101-SRBDC
100G SFP-DD FR1	100GBASE-FR1	1310nm EML	PIN	2km	Dual LC	0 to 70	4W	GSD-SPO101-FR1C
100G SFP-DD LR1	100GBASE-LR1	1310nm EML	PIN	10/20km	Dual LC	0 to 70	4W	GSD-SPO101-LR1C

Ethernet

■ QSFP 40GE/100GE/200GE

Features

- 4-channel full-duplex optical transceiver module
- Hot-pluggable QSFP MSA-compliant form factor
- Compliant with CMIS, SFF-8636 and SFF-8665
- Data rate up to 41.25Gbps, 103.125Gbps or 212.5Gbps
- Submersible version optional for 100G QSFP28 SR4/PSM4
- Submersible version optional for 200G QSFP56 SR4/DR4
- EEPROM customized with I2C interface
- RoHS compatible (lead free)



40GE

Product	Standard	Transmitter	Receiver	Reach	Optical Interface	Case Operating Temperature(°C)	Max. Power Consumption(W)	P/N
40G QSFP+ SR4	40GBASE-SR4 QDR	850nm VCSEL	PIN	300m(OM3) 400m(OM4)	MPO12	0 to 70 -40 to +85	1.5	GQS-MPO400-SR4C GQS-MPO400-SR4T
40G QSFP+ PSM4	40G-PSM4 QDR	1310nm FP/DML	PIN	2km/10km	MPO12	0 to 70	3.5	GQM-SPO400-IR4C GQM-SPO400-LR4C
40G QSFP+ LR4	40GBASE-LR4 QDR	CWDM4 FP/DML	PIN	2km/10km	Dual LC	0 to 70	3.5	GQS-SPO400-IR4C GQS-SPO400-LR4C
40G QSFP+ ER4	40GBASE-ER4	CWDM4 DML	APD	40km	Dual LC	0 to 70	3.5	GQS-SPO400-ER4C

200GE

Product	Standard	Transmitter	Receiver	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 to 70	5	GQS-MPO201-SR4C
200G QSFP56 SR4 (Submersible)	100GBASE-SR4 200GBASE-SR4	850nm VCSEL	PIN	70m (OM3) 100m (OM4)	MPO12 Pigtail	0 to 60	5	GL-Q201-SR4-M(D)xx
200G QSFP56 DR4	200GBASE-DR4	1310nm EML	PIN	500m/2km	MPO12	0 to 70	5.5	GQS-SPO201-DR4C
200G QSFP56 FR4	200GBASE-FR4	CWDM4 EML	PIN	2km/10km	Dual LC	0 to 70	5.5	GQS-SPO201-FR4C
200G QSFP56 LR4	100GBASE-LR4 200GBASE-LR4	LWDM4 EML	PIN	10km	Dual LC	0 to 70	7.5	GQS-SPO201-LR4C
200G QSFP56 ER4	200GBASE-ER4	LWDM4 EML	APD	40km	Dual LC	0 to 70	7	GQS-SPO201-ER4C

100GE

Product	Standard	Transmitter	Receiver	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 to 70 -40 to +85	2	GQS-MPO101-SR4C GQS-MPO101-SR4T
100G QSFP28 SR4 (Enhanced)	100GBASE-SR4 EDR	850nm VCSEL	PIN	200m(OM3) 300m(OM4)	MPO12	0 to 70 -40 to +85	2	GQS-MPO101-eSR4C GQS-MPO101-eSR4T
100G QSFP28 SR4 (Submersible)	100GBASE-SR4 EDR	850nm VCSEL	PIN	70m(OM3) 100m(OM4)	MPO12 Pigtail	0 to 60	2	GL-Q101-SR4-M(D)xx
100G QSFP28 PSM4 2km	100G-PSM4 EDR	1310nm DML	PIN	2km	MPO12	0 to 70 -40 to +85	3.5	GQM-SPO101-IR4C GQM-SPO101-IR4T
100G QSFP28 PSM4 10km	100G-PSM4 EDR	1310nm DML	PIN	10km	MPO12	0 to 70 -40 to +85	3.5	GQM-SPO101-LR4C GQM-SPO101-LR4T
100G QSFP28 PSM4 (Submersible)	100G-PSM4 EDR	1310nm DML	PIN	2km	MPO12 Pigtail	0 to 60	3.5	GL-Q101-IR4-M(D)xx
100G QSFP28 CWD4 2km	100G-CWD4 EDR	CWD4 DML	PIN	2km	Dual LC	0 to 70 -40 to +85	3.5	GQS-SPO101-CIR4C GQS-SPO101-CIR4T
100G QSFP28 CWD4 10km	100G-CWD4 EDR	CWD4 DML	PIN	10km	Dual LC	0 to 70 -40 to +85	3.5	GQS-SPO101-CLR4C GQS-SPO101-CLR4T
100G QSFP28 CLR4 2km	100G-CLR4 EDR	CWD4 DML	PIN	2km	Dual LC	0 to 70 -40 to +85	3.5	GQS-SPO101-CCR4C GQS-SPO101-CCR4T
100G QSFP28 CLR4 10km	100G-CLR4 EDR	CWD4 DML	PIN	10km	Dual LC	0 to 70 -40 to +85	3.5	GQS-SPO101-CMR4C GQS-SPO101-CMR4T
100G QSFP28 4WDM-10	100G-4WDM-10 EDR	CWD4 DML	PIN	10km	Dual LC	0 to 70 -40 to +85	4	GQS-SPO101-4LR4C GQS-SPO101-4LR4T
100G QSFP28 LR4 10km	100GBASE-LR4	LWDM4 DML	PIN	10km	Dual LC	0 to 70 -40 to +85	3.5	GQS-SPO101-LR4C GQS-SPO101-LR4T
100G QSFP28 LR4 20km	100GBASE-LR4	LWDM4 DML	PIN	20km	Dual LC	0 to 70	3.5	GQS-SPO101-L24C
100G QSFP28 LR4 10km (Dual-rate)	100GBASE-LR4 OTU4	LWDM4 DML	PIN	10km	Dual LC	0 to 70	3.5	GQS-SPO111-LR4C
100G QSFP28 LR4 20km (Dual-rate)	100GBASE-LR4 OTU4	LWDM4 DML	PIN	20km	Dual LC	0 to 70	3.5	GQS-SPO111-L24C
100G QSFP28 4WDM-40	100G-4WDM-40	LWDM4 DML	APD	30km/40km	Dual LC	0 to 70 -40 to +85	3.8	GQS-SPO101-4ER4C GQS-SPO101-4ER4T
100G QSFP28 ER4 Lite (Dual-rate)	100GBASE-ER4 OTU4	LWDM4 DML	APD	30km/40km	Dual LC	0 to 70	3.8	GQS-SPO111-ES4C
100G QSFP28 ER4 (Dual-rate)	100GBASE-ER4 OTU4	LWDM4 EML	APD+SOA	40km	Dual LC	0 to 70	6	GQS-SPO111-ER4C
100G QSFP28 ZR4 (Dual-rate)	100GBASE-ZR4 OTU4	LWDM4 EML	APD+SOA	60km 80km	Dual LC	0 to 70	6	GQS-SPO101-eER4C GQS-SPO101-ZR4C
100G QSFP28 SR1.2	100GBASE-SR1.2	850/900nm BiDi VCSEL	PIN	100m(OM4) 150m(OM5)	Dual LC	0 to 70	3	GQS-MPO101-SRBDC
100G QSFP28 DR1 (Silicon Photonics)	100GBASE-DR1	1310nm CW+MZ	PIN	500m	Dual LC	0 to 70	4	GQS-SI101DR1C
100G QSFP28 FR1 (Silicon Photonics)	100GBASE-FR1	1310nm CW+MZ	PIN	2km	Dual LC	0 to 70	4	GQS-SI101FR1C
100G QSFP28 LR1	100GBASE-LR1	1310nm EML	PIN	20km	Dual LC	0 to 70	4	GQS-SPO101-LR1C
100G QSFP28 ER1	100GBASE-ER1	1310nm EML	APD	40km	Dual LC	0 to 70	4	GQS-SPO101-ER1C

***Note** | The "(D)xx" in the P/N means the pigtail length, e.g., D05 means 0.5 meters, 01 means 1 meters, D15 means 1.5 meters, etc.

Ethernet

■ QSFP-DD 200GE/400GE/800GE

Features

- 4/8-channel full-duplex optical transceiver module
- Hot-pluggable QSFP-DD MSA-compliant form factor
- Compliant with CMIS, SFF-8636 and SFF-8665
- Data rate up to 206.25Gbps, 425Gbps or 850Gbps
- Case operating temperature range from 0 to 70
- EEPROM customized with I2C interface
- RoHS compatible (lead free)



Product	Standard	Transmitter	Receiver	Reach	Optical Interface	Max. Power Consumption (W)	P/N
200G QSFP-DD SR8	100GBASE-SR4	850nm VCSEL	PIN	70m(OM3) 100m(OM4)	MPO24	4	GQD-MPO201-DSR4C
200G QSFP-DD PSM8	100GBASE-PSM4	850nm VCSEL	PIN	70m(OM3) 100m(OM4)	MPO24	6 6.5	GDM-SPO201-FR8C GDM-SPO201-LR8C
200G QSFP-DD LR8	200GBASE-LR8	LWDM8 DML	PIN	500m/2km	Dual LC	7.5	GQD-SPO201-LR8C
200G QSFP-DD PSM4	200GBASE-DR4	1310nm EML	PIN	2km/10km	MPO12	5.5	GDM-SPO201-DR4C
200G QSFP-DD LR4	200GBASE-LR4	LWDM4 EML	PIN	10km	Dual LC	7	GQD-SPO201-LR4C
200G QSFP-DD ER4	200GBASE-ER4	LWDM4 EML	APO	40km	Dual LC	7.5	GQD-SPO201-ER4C
400G QSFP-DD SR8	200GBASE-SR4 400GBASE-SR8	850nm VCSEL	PIN	70m(OM3) 100m(OM4)	MPO24/16	10	GQD-MPO401-SR8C
400G QSFP-DD PSM8	400GBASE-PSM8	1310nm EML	PIN	2km 10km	MPO24	11	GDM-SPO401-FR8C GDM-SPO401-LR8C
400G QSFP-DD FR8	400GBASE-FR8	LWDM8 EML	PIN	2km	Dual LC	12.5	GQD-SPO401-FR8C
400G QSFP-DD LR8	400GBASE-LR8	LWDM8 EML	PIN	10km	Dual LC	12.5	GQD-SPO401-LR8C
400G QSFP-DD DR4 (Silicon Photonics)	400GBASE-DR4	1310nm CW+MZ	PIN	500m/2km	MPO12	10	GQD-SI401DR4C
400G QSFP-DD 4×FR1	4×100GBASE-FR1	1310nm EML	PIN	2km	MPO12	12.5	GDM-SPO401-FR4C
400G QSFP-DD 4×LR1	4×100GBASE-LR1	1310nm EML	PIN	10km	MPO12	12.5	GDM-SPO401-LR4C
400G QSFP-DD FR4	400GBASE-FR4	CWDM4 EML	PIN	2km	Dual LC	12	GQD-SPO401-FR4C
800G QSFP-DD DR8 (Silicon Photonics)	800GBASE-DR8	1310nm CW+MZ	PIN	500m/2km	MPO24	15	GQD-SI801DR8C

Fibre Channel

■ SFP 16GFC/32GFC

Features

- Single-channel full-duplex optical transceiver module
- Hot-pluggable SFP MSA-compliant form factor
- Compliant with SFF-8402, SFF-8431 and SFF-8432
- Data rate up to 14.025Gbps or 28.05Gbps
- Duplex LC receptacle
- EEPROM customized with I2C interface
- RoHS compatible (lead free)



Product	Standard	Transmitter	Receiver	Reach	Case Operating Temperature (°C)	Max. Power Consumption (W)	P/N
16GFC SFP+SR	16GFC-SW	850nm VCSEL	PIN	100m(OM3) 190m(OM4)	0 to 70	1.2	GPP-8514G-SRC
16GFC SFP+LR	16GFC-LW	1310nm DML	PIN	10km	0 to 70	1.5	GPP-3114G-LRC
16GFC SFP+DWDM 10km	16GFC-DWDM	C18-C61 100GHz EML	PIN	10km	0 to 70 -40 to +85	1.8	GDP-xx14G-01C GDP-xx14G-01T
16GFC SFP+DWDM 40km	16GFC-DWDM	C18-C61 100GHz EML	APD	40km	0 to 70 -40 to +85	1.8	GDP-xx14G-04C GDP-xx14G-04T
32G SFP28 SR	32GFC-SW	850nm VCSEL	PIN	70m(OM3) 100m(OM4)	0 to 70 -40 to +85	1	GSS-MPO280-SRC GSS-MPO280-SRT
32G SFP28 SR (Enhanced)	32GFC-SW	850nm VCSEL	PIN	200m(OM3) 300m(OM4)	0 to 70 -40 to +85	1	GSS-MPO280-eSRC GSS-MPO280-eSRT
32G SFP28 LR	32GFC-LW	1310nm DML	PIN	10km	0 to 70 -40 to +85	1.8	GSS-SPO280-LRC GSS-SPO280-LRT
32G SFP28 ER	32GFC-EW	1310nm EML	APD	40km	0 to 70 -40 to +85	1.8	GSS-SPO280-ERC GSS-SPO280-ERT
32G SFP28 DWDM 10km	32GFC-DWDM	C18-C61 100GHz EML	PIN	2km 10km	0 to 70 -40 to +85	1.8	GSS-Dxx280-LRC GSS-Dxx280-LRT

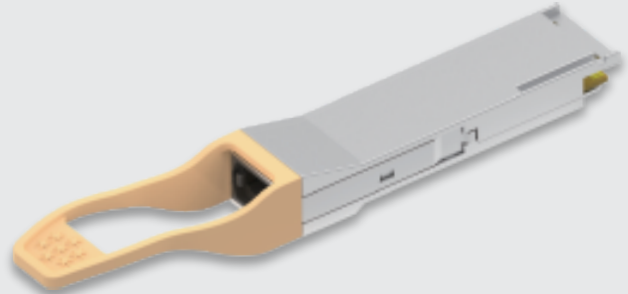
***Note** | The "xx" in the P/N means the DWDM wavelength channel number, e.g., 18 means C18, 19 means C19, 20 means C20, etc.

Fibre Channel

■ QSFP 4x16GFC/4x32GFC

Features

- 4-channel full-duplex optical transceiver module
- Hot-pluggable QSFP MSA-compliant form factor
- Compliant with SFF-8636 and SFF-8665
- Data rate up to 56.25Gbps or 112.2Gbps
- EEPROM customized with I2C interface
- RoHS compatible (lead free)



Product	Standard	Transmitter	Receiver	Reach	Optical Interface	Case Operating Temperature (°C)	Max. Power Consumption (W)	P/N
56G (4×16GFC) QSFP+ SR4	16GFC-SW FDR	850nm VCSEL	PIN	100m(Om3) 150m(Om4)	MPO12	0 to 70	1.5	GQS-MPO560-SR4C
128GFC (4×32GFC) QSFP28 SR4	128GFC-SW4	850nm VCSEL	PIN	70m(Om3) 100m(Om4)	MPO12	0 to 70 -40 to +85	2	GQS-MPO111-SR4C GQS-MPO111-SR4T
128GFC (4×32GFC) QSFP28 SR4 (Enhanced)	128GFC-SW4	850nm VCSEL	PIN	200m(Om3) 300m(Om4)	MPO12	0 to 70 -40 to +85	2	GQS-MPO111-eSR4C GQS-MPO111-eSR4T