

GIGALIGHT Products Catalogue 2023

Low Speed Series Modules & UHD Video Optical Transmission

Open Optical Network Device Explorer

10G Optical Transceivers

- 10G XFP
- 10G XFP BiDi
- 10G XFP CWDM/DWDM
- 10G XFP Tunable
- 10G SFP+
- 10G SFP+ BiDi
- 10G SFP+ CWDM/DWDM
- 10G SFP+ Tunable

1.25G Series

- 1.25G SFP
- 1.25G SFP BiDi/CSFP
- 1.25G SFP CWDM/DWDM

10G AOC & DAC

- 10G AOC
- 10G DAC

SONET/SDH ($\leq 2.5\text{Gb/s}$)

- 2.5G SFP
- 2.5G SFP BiDi/CSFP
- 2.5G SFP CWDM/DWDM
- 622M SFP
- 155M SFP
- 155M SFP BiDi/CSFP
- 155M SFP CWDM

Copper Transceivers

- 10GBASE-T SFP+
- 1000BASE-T SFP
- 100BASE-T SFP
- 10/100/1000BASE-T SFP

UHD Video Optical Transmission

3G-12G SDI Video over Fiber Solution

- 3G-12G SDI Optical Modules
- 3G-12G SDI Optical Extenders

Consumer Active Optical Cables

- USB 3.0(3.1GEN1) AOC

CPRI 3G~10G

- 6G/10G CPRI SFP+
- 6G/10G CPRI SFP+ BiDi
- 6G/10G CPRI SFP+ CWDM/DWDM
- 3G/4.9G CPRI SFP
- 3G/4.9G CPRI SFP BiDi

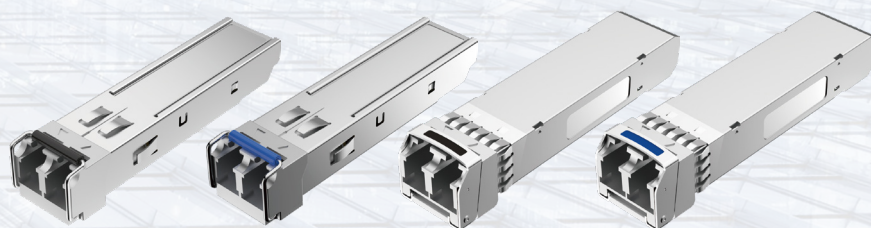
Rugged Transceivers

1G/10G

The GIGALIGHT Industrial Grade Rugged Transceivers are market leading "condensation, moisture and corrosion resistant" transceivers for special scenarios, such as pulp and paper, water/wastewater treatment, mining, tire and rubber manufacturing etc. Reliability of communication products is strictly required due to the harsh industrial environment. Communication products need to be installed in a corrosive environment, while ensuring long-term normal and reliable communication services. GIGALIGHT's rugged optical module achieves double protection through two advanced processes including "Parylene vacuum coating" and "3M coating", which can handle hazardous environment applications with ease.

Features

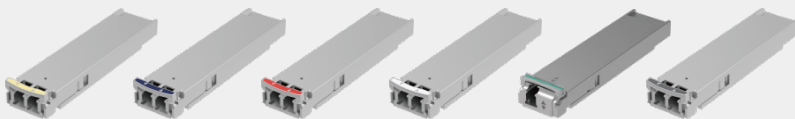
- Suitable for various industrial applications requiring anti-condensation, moisture-proof and corrosion-proof
- 4-channel full-duplex optical transceiver
- Compliant with SFP+/SFP+ MSA
- Compliant with SFF-8431 and SFF-8472
- Duplex LC optical interface
- I-TEMP(-40°C~+85°C)
- Support EEPROM write code
- RoHS compliant (lead free)



Product	Max. Data Rate	LD	PD	Reach	P/N
1G SFP SX Rugged Transceivers	1.25Gbps	850nm VCSEL	PIN	550m (OM2)	GC-SFP-1G-SX
1G SFP LX Rugged Transceivers	1.25Gbps	1310nm FP	PIN	10km	GC-SFP-1G-LX
10G SFP+ SR Rugged Transceivers	10.3125Gbps	850nm VCSEL	PIN	200m (OM3)	GC-SFP-10G-SR
10G SFP+ LR Rugged Transceivers	10.3125Gbps	1310nm DML	PIN	300m (OM4)	GC-SFP-10G-LR

10G Optical Transceivers

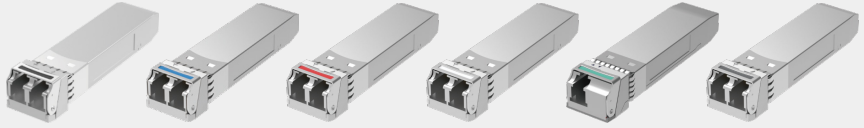
10G XFP



Portfolio	Reach	Wavelength	Optical Interface	P/N
Grey Light	400m	850nm	LC	GX-85192-SRx
	2km	1310nm	LC	GX-31192-02C
	10km	1310nm	LC	GX-31192-LRx
	20km	1310nm	LC	GX-31192-L2C
	40km	1310nm	LC	GX-31192-ERx
	40km	1550nm	LC	GX-55192-ERC
	80km	1550nm	LC	GX-55192-12C
	120km	1550nm	LC	GX-55192-ZRx
BiDi	10km	1270/1330nm	Simplex LC	GBX-2733192-LRC
	10km	1330/1270nm	Simplex LC	GBX-3327192-LRC
	20km	1270/1330nm	Simplex LC	GBX-2733192-L2C
	20km	1330/1270nm	Simplex LC	GBX-3327192-L2C
	40km	1270/1330nm	Simplex LC	GBX-2733192-ERC
	40km	1330/1270nm	Simplex LC	GBX-3327192-ERC
	50km	1270/1330nm	Simplex LC	GBX-2733192-E5C
	50km	1330/1270nm	Simplex LC	GBX-3327192-E5C
	60km	1270/1330nm	Simplex LC	GBX-2733192-E6C
	60km	1330/1270nm	Simplex LC	GBX-3327192-E6C
	80km	1490/1550nm	Simplex LC	GBX-4955192-E8C
	80km	1550/1490nm	Simplex LC	GBX-5549192-E8C
CWDM	10km	1271~1611nm (20nm)	LC	GXC-xx192-01x
	40km	1271~1611nm (20nm)	LC	GXC-xx192-04x
	70km	1591~1611nm (20nm)	LC	GXC-xx192-07x
	80km	1471~1571nm (20nm)	LC	GXC-xx192-08x
DWDM	40km	1528.77~1563.05nm (100GHz)	LC	GXD-xxx192-04C
	80km	1528.77~1563.05nm (100GHz)	LC	GXD-xx192-08x
	80km	1528.77~1563.05nm (50GHz)	LC	GXD-xxx192-08C
	120km	1528.77~1560.61nm (100GHz)	LC	GXD-xxx192-12C
Tunable	80km	C-band (50GHz)	LC	GXU-Cxxx-08CD
	80km	C-band (50GHz)	LC	GXT-Cxxx-00A
	80km	C-band (50GHz)	LC	GXT-Cxxx-80A
	80km	C-band (50GHz)	LC	GXT-Cxxx-80P

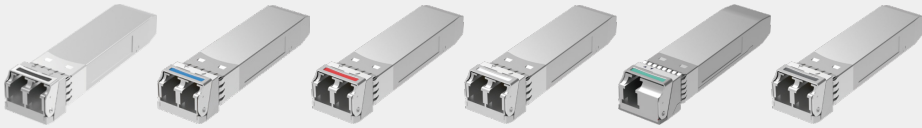
10G Optical Transceivers

10G SFP+



Portfolio	Reach	Wavelength	Optical Interface	P/N
Grey Light	400m	850nm	LC	GPP-85192-SRx
	220m	1310nm	LC	GPP-31192-LRMC
	2km	1310nm	LC	GPP-31192-02x
	10km	1310nm	LC	GPP-31192-LRx
	20km	1310nm	LC	GPP-31192-L2C
	40km	1310nm	LC	GPP-31192-ERC
	40km	1550nm	LC	GPP-55192-ERC
	60km	1550nm	LC	GPP-55192-E6C
	80km	1550nm	LC	GPP-55192-ZRx
BiDi	10km	1270/1330nm	Simplex LC	GBP-2733192-LRx(I)
	10km	1330/1270nm	Simplex LC	GBP-3327192-LRx(I)
	20km	1270/1330nm	Simplex LC	GBP-2733192-L2x(I)
	20km	1330/1270nm	Simplex LC	GBP-3327192-L2x(I)
	40km	1270/1330nm	Simplex LC	GBP-2733192-ERx(I)
	40km	1330/1270nm	Simplex LC	GBP-3327192-ERx(I)
	60km	1270/1330nm	Simplex LC	GBP-2733192-E6x(I)
	60km	1330/1270nm	Simplex LC	GBP-3327192-E6x(I)
	80km	1490/1550nm	Simplex LC	GBP-4955192-08C
	80km	1550/1490nm	Simplex LC	GBP-5549192-08C
	80km	1490/1550nm	Simplex LC	GBP-4955192-E8C
	80km	1550/1490nm	Simplex LC	GBP-5549192-E8C
CWDM	10km	1271~1611nm (20nm)	LC	GCP-xx192-01x
	20km	1271~1611nm (20nm)	LC	GCP-xx192-02x
	40km	1271~1611nm (20nm)	LC	GCP-xx192-04x
	70km	1591~1611nm (20nm)	LC	GCP-xx192-07x
	80km	1471~1571nm (20nm)	LC	GCP-xx192-08x
DWDM	40km	1528.77~1563.05nm (100GHz)	LC	GDP-xxx192-04x
	40km	1528.77~1563.05nm (50GHz)	LC	GDP-xxx192-04C
	70km	1528.77~1563.05nm (100GHz)	LC	GDP-xx192-07x
	80km	1528.77~1563.05nm (100GHz)	LC	GDP-xx192-08x
	80km	1528.77~1563.05nm (50GHz)	LC	GDP-xxx192-08C
Tunable	80km	C-band (50GHz)	LC	GPU-Cxxx-08CD

2.5G SFP



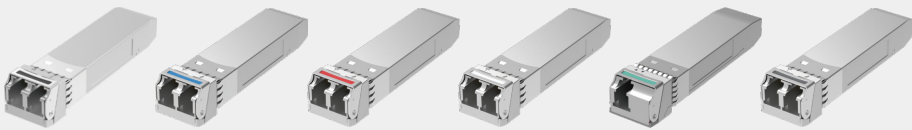
Portfolio	Reach	Wavelength	Optical Interface	P/N
Grey Light	300m	850nm	LC	GP-8548-S3xD
	500m	850nm	LC	GP-8548-S5xD
	2km	1310nm	LC	GP-3148-02xD
	20km	1310nm	LC	GP-3148-L2xD
	40km	1310nm	LC	GP-3148-L4CD
	40km	1550nm	LC	GP-5548-L4xD
	80km	1550nm	LC	GP-5548-L8CD
BiDi	20km	1310/1550nm	Simplex LC/SC	GPB-3548x-L2xD
	20km	1550/1310nm	Simplex LC/SC	GPB-5348x-L2xD
	40km	1490/1550nm	Simplex LC/SC	GPB-4548x-L4CD
	40km	1550/1490nm	Simplex LC/SC	GPB-5448x-L4CD
	80km	1490/1550nm	Simplex LC	GPB-4548L-L8CD
	80km	1550/1490nm	Simplex LC	GPB-5448L-L8CD
2CH BiDi (CSFP)	20km	1310/1490nm	LC	GCB-3448-L2CD
	20km	1490/1310nm	LC	GCB-4348-L2CD
	20km	1310/1550nm	LC	GCB-3548-L2CD
	20km	1550/1310nm	LC	GCB-5348-L2CD
CWDM	40km	1271~1611nm (20nm)	LC	GPC-xx48-04xD
	80km	1471~1611nm (20nm)	LC	GPC-xx48-08CD
DWDM	80km	1528.77~1563.05nm (100GHz)	LC	GPD-xxMR-08CD
	80km	1528.77~1563.05nm (100GHz)	LC	GPD-xx48-08CD

622M SFP



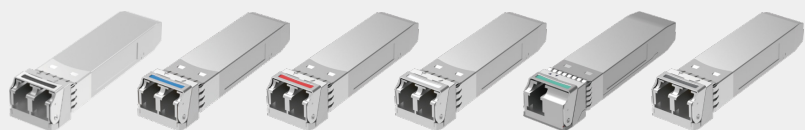
Portfolio	Reach	Wavelength	Optical Interface	P/N
Grey Light	20km	1310nm	LC	GP-3112-L2xD
	40km	1310nm	LC	GP-3112-L4xD
	80km	1550nm	LC	GP-5512-L8xD
	120km	1550nm	LC	GP-5512-12CD

155M SFP



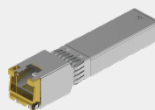
Portfolio	Reach	Wavelength	Optical Interface	P/N
Grey Light	2km	850nm	LC	GP-8503-02CD
	2km	1310nm	LC	GP-1303-02xD
	20km	1310nm	LC	GP-3103-L2xD
	40km	1310nm	LC	GP-3103-L4xD
	80km	1550nm	LC	GP-5503-L8xD
	120km	1550nm	LC	GP-5503-12xD
	150km	1550nm	LC	GP-5503-15CD
BiDi	20km	1310/1490nm	Simplex LC/SC	GPB-3403x-L2xD
	20km	1490/1310nm	Simplex LC/SC	GPB-4303x-L2xD
	20km	1310/1550nm	Simplex LC/SC	GPB-3503x-L2xD
	20km	1550/1310nm	Simplex LC/SC	GPB-5303x-L2xD
	40km	1310/1490nm	Simplex LC/SC	GPB-3403x-L4xD
	40km	1490/1310nm	Simplex LC/SC	GPB-4303x-L4xD
	40km	1310/1550nm	Simplex LC/SC	GPB-3503x-L4xD
	40km	1550/1310nm	Simplex LC/SC	GPB-5303x-L4xD
	60km	1310/1490nm	Simplex LC/SC	GPB-3403x-L6CD
	60km	1490/1310nm	Simplex LC/SC	GPB-4303x-L6CD
	60km	1310/1550nm	Simplex LC/SC	GPB-3503x-L6CD
	60km	1550/1310nm	Simplex LC/SC	GPB-5303x-L6CD
	80km	1490/1550nm	Simplex LC/SC	GPB-4503x-L8CD
	80km	1550/1490nm	Simplex LC/SC	GPB-5403x-L8CD
	120km	1490/1550nm	Simplex LC/SC	GPB-4503x-12CD
	120km	1550/1490nm	Simplex LC/SC	GPB-5403x-12CD
2CH BiDi (CSFP)	20km	1310/1490nm	LC	GCB-3403-L2xD
	20km	1490/1310nm	LC	GCB-4303-L2xD
	20km	1310/1550nm	LC	GCB-3503-L2xD
	20km	1550/1310nm	LC	GCB-5303-L2xD
	40km	1310/1490nm	LC	GCB-3403-L4CD
	40km	1490/1310nm	LC	GCB-4303-L4CD
	40km	1310/1550nm	LC	GCB-3503-L4CD
	40km	1550/1310nm	LC	GCB-5303-L4CD
CWDM	80km	1451~1611nm (20nm)	LC	GPC-xx03-08xD
	120km	1451~1611nm (20nm)	LC	GPC-xx03-12CD

1.25G SFP



Portfolio	Reach	Wavelength	Optical Interface	P/N
Grey Light	550m	850nm	LC	GP-8524-S5xD
	2km	1310nm	LC	GP-1324-02xD
	20km	1310nm	LC	GP-3124-L2xD
	40km	1310nm	LC	GP-3124-L4xD
	40km	1550nm	LC	GP-5524-L4xD
	80km	1550nm	LC	GP-5524-L8xD
	120km	1550nm	LC	GP-5524-12CD
BiDi	2km	1310/1550nm	Simplex LC/SC	GPB-3524x-02xD
	2km	1550/1310nm	Simplex LC/SC	GPB-5324x-02xD
	20km	1310/1490nm	Simplex LC/SC	GPB-3424x-L2xD
	20km	1490/1310nm	Simplex LC/SC	GPB-4324x-L2xD
	20km	1310/1550nm	Simplex LC/SC	GPB-3524x-L2xD
	20km	1550/1310nm	Simplex LC/SC	GPB-5324x-L2xD
	40km	1310/1490nm	Simplex LC/SC	GPB-3424x-L4xD
	40km	1490/1310nm	Simplex LC/SC	GPB-4324x-L4xD
	40km	1310/1550nm	Simplex LC/SC	GPB-3524x-L4xD
	40km	1550/1310nm	Simplex LC/SC	GPB-5324x-L4xD
	60km	1310/1550nm	Simplex LC	GPB-3524L-L6CD
	60km	1550/1310nm	Simplex LC	GPB-5324L-L6CD
	80km	1490/1550nm	Simplex LC	GPB-4524L-L8CD
	80km	1550/1490nm	Simplex LC	GPB-5424L-L8CD
	120km	1490/1550nm	Simplex LC	GPB-4524L-12CD
	120km	1550/1490nm	Simplex LC	GPB-5424L-12CD
2CH BiDi (CSFP)	20km	1310/1490nm	LC	GCB-3403-L2xD
	20km	1490/1310nm	LC	GCB-4303-L2xD
	20km	1310/1550nm	LC	GCB-3503-L2xD
	20km	1550/1310nm	LC	GCB-5303-L2xD
	40km	1310/1490nm	LC	GCB-3403-L4xD
	40km	1490/1310nm	LC	GCB-4303-L4xD
	40km	1310/1550nm	LC	GCB-3503-L4xD
	40km	1550/1310nm	LC	GCB-5303-L4xD
CWDM	40km	1271~1611nm (20nm)	LC	GPC-xx24-04xD
	80km	1271~1611nm (20nm)	LC	GPC-xx24-08xD
	100km	1271~1431nm (20nm)	LC	GPC-xx24-10CD
	120km	1451~1611nm (20nm)	LC	GPC-xx24-12CD
DWDM	80km	1528.77~1563.05nm (100GHz)	LC	GPD-xx24-08CD
	120km	1528.77~1563.05nm (100GHz)	LC	GPD-xx24-12CD

Copper Transceivers

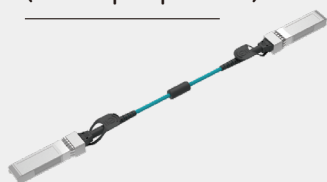


Portfolio	Reach	Cable	Interface	P/N
10GBASE-T SFP+	30m	CAT6a	RJ-45	GE-XB-P7RC
1000BASE-T SFP	100m	CAT5/5e	RJ-45	GE-GB-P3Rx-E
	100m	CAT5/5e	RJ-45	GE-GB-P3Rx-C5
10/100/1000BASE-T SFP	100m	CAT5/5e	RJ-45	GE-GB-P1Rx-E
100BASE-T SFP	100m	CAT5/5e	RJ-45	GE-FB-P4Rx
10/100BASE-T SFP	100m	CAT5/5e	RJ-45	GE-FB-P2Rx

10G AOC & DAC

10G AOC

10G SFP+ AOC 1m-400m (I-Temp Optional)



- Hot-pluggable SFP+ form factor full-duplex active optical cable assembly
- 850nm VCSEL laser and PIN photo-detector
- Data rate up to 10.3125Gbps
- Compliant with SFP+ MSA (SFF-8431), SFF-8472 and IEEE 802.3ae 10GBASE-SR
- Compliant with InfiniBand SDR/DDR/QDR and 4G/8G Fibre Channel
- Customizable length up to 300m (OM3) or 400m (OM4)
- 0.8W maximum power dissipation per 10G SFP+ SR module
- Case operating temperature range: C-Temp or I-Temp
- Single 3.3V power supply
- Built-in digital diagnostic functionality
- RoHS compliant (lead free)

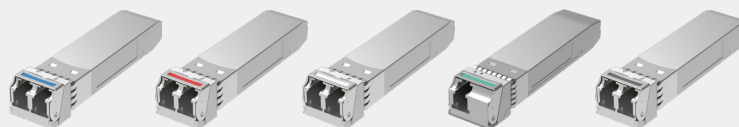
10G DAC

10G SFP+ PCC



- Hot-pluggable SFP+ form factor
- Data rate up to 10.3125Gbps
- 10Gb/s NRZ modulation
- SFP+ MSA compliant
- Length up to 7m
- Operating case temperature of 0-70°C
- Single 3.3V supply voltage
- Bit Error Rate (BER) better than 1E-15
- RoHS compliant
- LSZH (Low Smoke Zero Halogen) jacket
- LF (Lead Free) HF (Halogen Free) PCB
- SFF-8636 compliant
- I2C management interface

6G/10G CPRI SFP+



Portfolio	Reach	Wavelength	Optical Interface	P/N
Grey Light	2km	1310nm	LC	GPP-31192-02xl
	10km	1310nm	LC	GPP-31192-L1xl
	20km	1310nm	LC	GPP-31192-L2xl
	40km	1310nm	LC	GPP-31192-L4xl
	80km	1550nm	LC	GPP-55192-ZRx
BiDi	10km	1270/1330nm	Simplex LC	GBP-2733192-LRxI
	10km	1330/1270nm	Simplex LC	GBP-3327192-LRxI
	20km	1270/1330nm	Simplex LC	GBP-2733192-L2xl
	20km	1330/1270nm	Simplex LC	GBP-3327192-L2xl
	40km	1270/1330nm	Simplex LC	GBP-2733192-ERxI
	40km	1330/1270nm	Simplex LC	GBP-3327192-ERxI
	60km	1270/1330nm	Simplex LC	GBP-2733192-E6xl
	60km	1330/1270nm	Simplex LC	GBP-3327192-E6xl
	80km	1490/1550nm	Simplex LC	GBP-4955192-E8x
	80km	1550/1490nm	Simplex LC	GBP-5549192-E8x
CWDM	10km	1271~1611nm (20nm)	LC	GCP-xx192-01x
	40km	1271~1611nm (20nm)	LC	GCP-xx192-04x
DWDM	40km	1528.77~1563.05nm (100GHz)	LC	GDP-xx192-04x
	70km	1528.77~1563.05nm (100GHz)	LC	GDP-xx192-07x
	80km	1528.77~1563.05nm (100GHz)	LC	GDP-xx192-08x

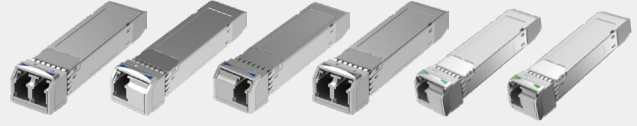
3G/4.9G CPRI SFP



Portfolio	Reach	Wavelength	Optical Interface	P/N
Grey Light	10km	1310nm	LC	GP-315G-L1xl
	20km	1310nm	LC	GP-315G-L2xl
	40km	1310nm	LC	GP-315G-L4xl
BiDi	10km	1310/1550nm	Simplex LC	GBP-31555G-L1xl
	10km	1550/1310nm	Simplex LC	GBP-55315G-L1xl
	20km	1310/1550nm	Simplex LC	GBP-31555G-L2xl
	20km	1550/1310nm	Simplex LC	GBP-55315G-L2xl
	40km	1310/1550nm	Simplex LC	GBP-31555G-L4xl
	40km	1550/1310nm	Simplex LC	GBP-55315G-L4xl
	80km	1310/1550nm	Simplex LC	GBP-31555G-L8xl
	80km	1550/1310nm	Simplex LC	GBP-55315G-L8xl

3G-12G SDI Video over Fiber Solution

3G-SDI SFP



4K UHD Ecosystem

4K Source

UHD TV program production, using serial 12G-SDI baseband signals for transmission, produces a large amount of original data, occupies huge storage space and transmission broadband.



3G/12G SFP



3G/12G-SDI Extenders

Encoding

After encoding and compressing the source, prepare for 4K distribution and transmission. The bit rate of 4K TV baseband signal is very high, and it needs to be compressed between transmission and storage.

**H.265
HEVC**

Storage & Distribution

The streaming media format is distributed and transmitted in the IP Ethernet network, the video data is located in the server in the data center, and the 4K live broadcast operation generally adopts a 30Mbps bit stream.



Decoding & Display

The 4K baseband signal generated after decoding the 4K streaming media is generally transmitted to the 4K TV or monitor through the parallel HDMI 2.0 baseband signal.

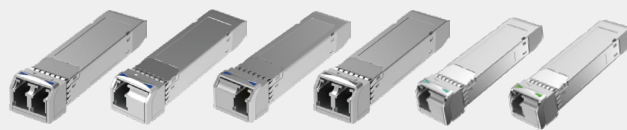


HDMI 2.0 AOC

Portfolio	Reach	Wavelength	Optical Interface	P/N
Grey Light Tx&Rx	2km	1310nm	LC	GHP-313G-02xD(M)
	20km	1310nm	LC	GHP-313G-L2CD(M)
	40km	1310nm	LC	GHP-313G-L4CD(M)
	40km	1550nm	LC	GHP-553G-L4CD(M)
	80km	1310nm	LC	GHP-313G-L8CD(M)
	80km	1550nm	LC	GHP-553G-L8CD(M)
Grey Light Tx	2km	1310nm	Simplex LC	GHT-313G-02xD(M)
	20km	1310nm	Simplex LC	GHT-313G-L2CD(M)
	40km	1310nm	Simplex LC	GHT-313G-L4CD(M)
	40km	1550nm	Simplex LC	GHT-553G-L4CD(M)
Grey Light Dual Tx	2km	1310nm&1310nm	LC	GTT-31313G-02xD
	20km	1310nm&1310nm	LC	GTT-31313G-L2CD
	40km	1310nm&1310nm	LC	GTT-31313G-L4CD
	40km	1550nm&1550nm	LC	GTT-55553G-L4CD
Grey Light Rx	2km	N/A	Simplex LC	GHR-3G-02xD(M)
	20km	N/A	Simplex LC	GHR-3G-L2CD(M)
	40km	N/A	Simplex LC	GHR-3G-L4CD(M)
Grey Light Dual Rx	2km	N/A	LC	GRR-3G-02xD
	20km	N/A	LC	GRR-3G-L2CD
	40km	N/A	LC	GRR-3G-L4CD
CWDM	20km	1271~1611nm (20nm)	LC	GHPC-xx3G-L2CD
	40km	1271~1611nm (20nm)	LC	GHPC-xx3G-L4CD
	80km	1271~1611nm (20nm)	LC	GHPC-xx3G-L8CD
CWDM Tx	20km	1271~1611nm (20nm)	Simplex LC	GHTC-xx3G-L2CD
	40km	1271~1611nm (20nm)	Simplex LC	GHTC-xx3G-L4CD
CWDM Dual Tx	20km	1271~1611nm (20nm)	LC	GTTC-xxxx3G-L2CD
	40km	1271~1611nm (20nm)	LC	GTTC-xxxx3G-L4CD

3G-12G SDI Video over Fiber Solution

12G-SDI SFP+



Portfolio	Reach	Wavelength	Optical Interface	P/N
Grey Light Tx&Rx	10km	1310nm	LC	GHP-3112G-L1CD(M)
	20km	1310nm	LC	GHP-3112G-L2CD(M)
Grey Light Tx	10km	1310nm	Simplex LC	GHT-3112G-L1CD(M)
	20km	1310nm	Simplex LC	GHT-3112G-L2CD(M)
Grey Light Dual Tx	10km	1310nm&1310nm	LC	GTT-313112G-L1CD
	20km	1310nm&1310nm	LC	GTT-313112G-L2CD
Grey Light Rx	10km	N/A	Simplex LC	GHR-12G-L1CD(M)
	20km	N/A	Simplex LC	GHR-12G-L2CD(M)
Grey Light Dual Rx	10km	N/A	LC	GRR-12G-L1CD
	20km	N/A	LC	GRR-12G-L2CD
BiDi	10km	1270/1330nm	Simplex LC	GHB-2612GL-L1CD(M)
	10km	1330/1270nm	Simplex LC	GHB-6212GL-L1CD(M)
	20km	1270/1330nm	Simplex LC	GHB-2612GL-L2CD(M)
	20km	1330/1270nm	Simplex LC	GHB-6212GL-L2CD(M)
CWDM	10km	1271~1571nm (20nm)	LC	GHPC-xx12G-L1CD(M)
CWDM Tx	10km	1271~1571nm (20nm)	Simplex LC	GHTC-xx12G-L1CD(M)
CWDM Dual Tx	10km	1271~1571nm (20nm)	LC	GTTC-xxxx12G-L1CD

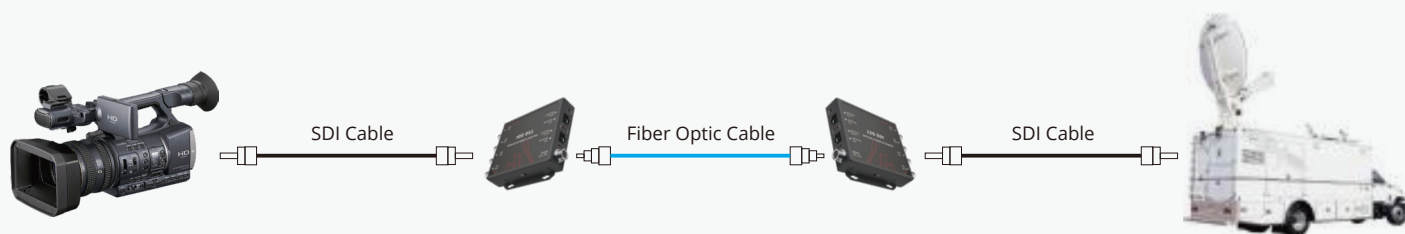
3G-12G SDI Video over Fiber Solution

3G-SDI Optical Extenders



GIGALIGHT's 3G-SDI optical extender converts video electrical signals and optical signals, and is equipped with Rx/Rx optical modules to achieve long-reach unidirectional transmission of 4-channel 3G-SDI signals. The product is a separate transceiver, Transmitter and Receiver need to be paired. When using the 3G-SDI SFP Dual Rx or Dual Rx optical modules, you need to pay attention to the matching of the optical module, that is, the transmitting end needs to be connected to the receiving end. In addition, when using multiple pairs of optical extenders and supporting 3G-SDI SFP CWDM Dual Rx or Dual Rx optical modules and passive CWDM, the transmission capacity can be greatly increased and a lot of fiber resources can be saved.

Product Name	Data Rate	Optical Ports	SDI Ports	P/N
3G-SDI Optical Extender, Transmitter	4x 3Gb/s	2x SFP (Dual Tx)	4x BNC	G-SDI-E-4*3G-Tx
3G-SDI Optical Extender, Receiver	4x 3Gb/s	2x SFP (Dual Tx)	4x BNC	G-SDI-E-4*3G-Rx



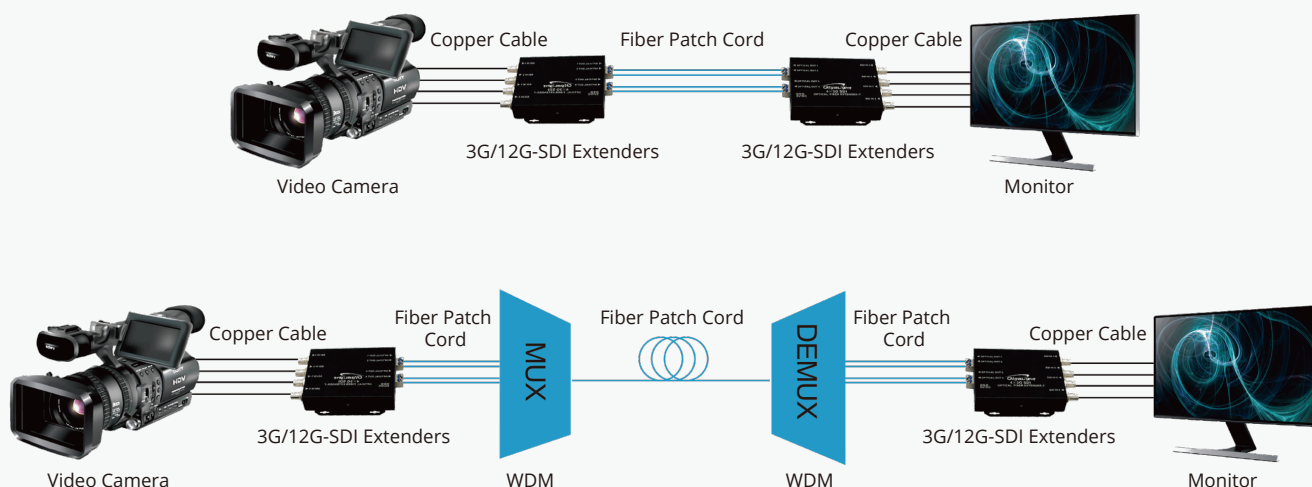
3G-12G SDI Video over Fiber Solution

12G-SDI Optical Extenders



GIGALIGHT's 12G-SDI optical extender converts video electrical signals and optical signals, and uses optical fiber and optical transceiver modules to realize the long reach two-way transmission of dual-channel 12G-SDI signals. The optical extender is an integrated transceiver, which receives the SDI video electrical signal through the BNC interface and then is converted into an optical signal by the SFP+ optical module for transmission. When using the 12G-SDI SFP+ optical transceiver modules, the optical fiber needs to be cross-connected. When using 12G-SDI SFP+ BiDi optical transceiver modules, half of the optical fiber resources can be saved. In addition, when using multiple optical extenders and supporting 12G-SDI SFP+ CWDM optical transceiver modules and passive CWDM MUX DEMUX, the transmission capacity can be greatly increased and optical fiber resources can be further saved.

Product Name	Data Rate	Optical Ports	SDI Ports	P/N
12G-SDI Optical Extender	2x 12Gb/s	2x SFP+	4x BNC	G-SDI-E-2*12G-TR



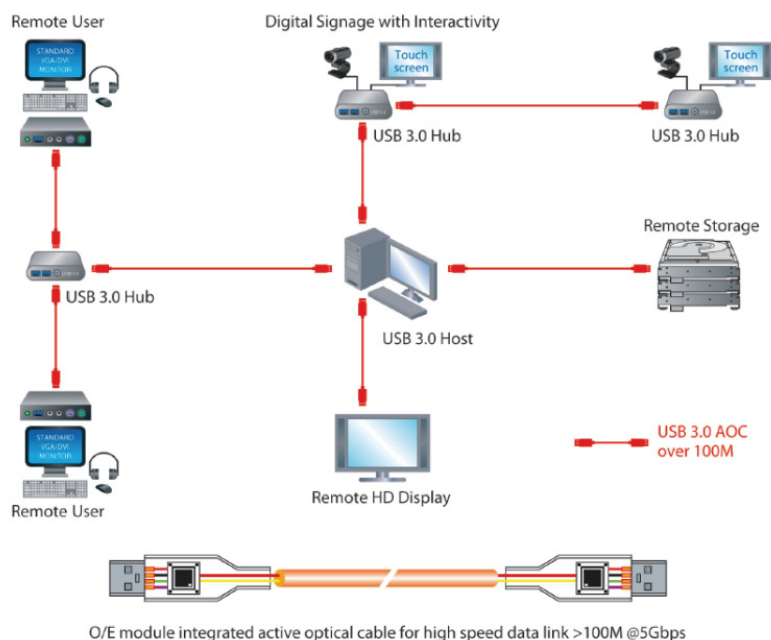
UHD Video Optical Transmission

Consumer Active Optical Cables

USB 3.0(3.1GEN1) AOC



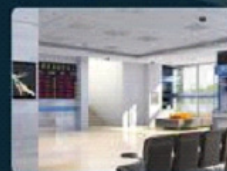
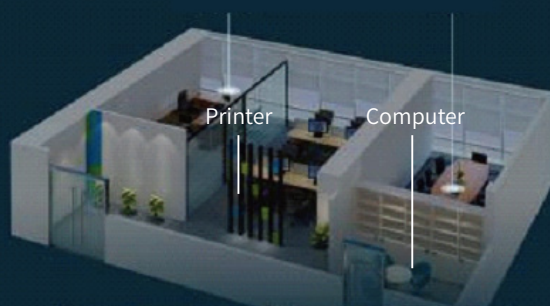
GIGALIGHT's USB 3.0 AOC is used for the interconnection between USB 3.0 devices and supports 5Gb/s ultra-high-speed data transmission. The maximum transmission distance of 100m can be achieved through multimode fiber, which is far beyond the traditional USB data cable with copper wire as the transmission medium. This product is mainly used in long-distance USB data transmission or communication scenarios, such as centralized management of large-scale Internet cafes, computer hosts, e-sports competitions, medical imaging systems, industrial automation systems, machine vision systems, long-reach printing, multimedia classrooms, home theaters and gamepad and so on.



Dedicated for long-distance printing

10m cable length, with signal amplifier

Super long-distance printing scenes such as offices and banks are more practical



Bank remote printing



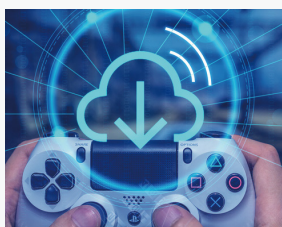
Long-distance printing on site

Applicable to a variety of scenarios



Gamepad distance extended

Comfortable operation and more enjoyable



Printer distance extended

Long-distance printing is more convenient



Digital equipment distance extension

Enjoy high-speed data transfer



Product Name	Data Rate	Connector	Max. Length	P/N
USB 3.0(3.1GEN1) AOC	5Gb/s	USB Type-A	100m	G-USBAOC-3-xxxC



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