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BROADEX TECHNOLOGIES

ABOUT

Broadex Technologies Co., Ltd. (Stock Code: 300548.SZ)

focuses on the market of telecommunications, data communications, and interconnection sectors. With a rich portfolio that spans from PLC optical splitters, PON optical transceivers, DWDM, AWG,VOA and VMUX for telecommunications, to high-speed optical transceivers and 25G to 800G active optical cables (AOC)/Direct Attach Cables (DAC)/Active Electrical Cables (AEC)/active copper cable (ACC) for data centers, and high-speed active cables, IC and modules for consumer electronics, industrial and medical interconnections.

Broadex Technologies has a vertically integrated PLC production line from chip design and manufacturing to module package testing.

Broadex Technologies leads in development of 10GPON transceivers.

Broadex Technologies develops both optical AOC and copper DAC/ACC/AEC connectivity solutions for datacenter customers.

Broadex Technologies has SiPh based high speed modules suited for 5G fronthaul and datacenter markets.

Broadex Technologies has high-precision automatic production and testing equipment based on COB process platform and ATE test platform.

Broadex Technologies has the research and development capability and batch delivery capability of 10G~800G full range of optical module products.

Our Locations

GLOBAL **FOOTPRINT**

UK

Indonesia

China

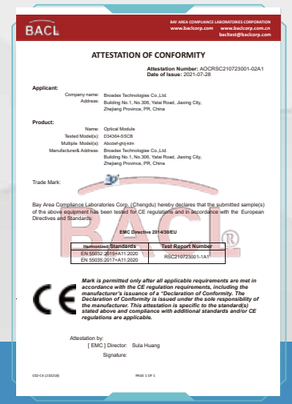
Quality Management System

ISO 9001

ISO 14001

ISO 45001

CB



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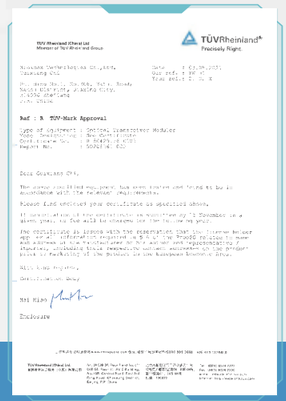

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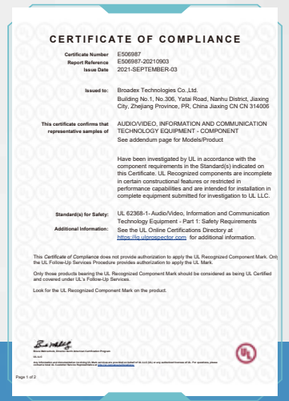


UL

FDA

FCC

Fiber Array
Hermetic/Non-hermetic Fiber Array

- Configurations include: 1ch~128ch
- Single-mode, multimode or polarization maintaining fibers
- 127um, 250um and other fiber pitches available
- Typical core pitch spec within ±0.5μm
- Multiple v-groove materials including: quartz, Pyrex, silicon

Channel Counts	Fiber Type	Core Pitch	End Face Angle	Operating Temperature	Connector
1/2/4/8/16/32/ 40/48/64/80/96	SM/MM/PM	127/250um Customized	0°/5°/8°/12°/ 40°/90°	-40 to +85℃	SC/LC/FC/ Receptacle Customized

Fiber Optic Patch Cord

- Low insertion loss
- High return loss
- Good repeatability and interchangeability

Fiber Type	Tube Type	Connector
SM/MM/PM	900μm/2mm/3mm Loose Tube	SC/LC/FC/MPO Customized

PLC Splitter

- Low insertion loss and PDL
- Excellent channel uniformity
- Compact size
- Wide operating wavelength and temperature range
- High reliability and high stability
- Telecordia GR-1221 and GR-1209 qualified

Channel Counts	Package Type	Tube Type	Operating Temperature	Connector
up to 128	Bare/Blockless/Module/LGX Box/ 1U Box/Rack Mount	250μm Bare Fiber/900μm/2mm/3mm Loose Tube	-40to+85℃	SC/LC/FC Customized

WDM - Arrayed Waveguide Grating
CWDM MUX/DEMUX Assembly

- Compact size
- High stability and reliability
- Applicable to 800Gbps Transceiver

Channel Counts	Wavelength Range	Type	Channel Spacing	Operating Temperature	Connector
4/8	O-band	N/A	20nm	-5 to + 65℃	SC/LC/FC Customized

Thermal AWG Module

- 50 GHz, 75 GHz, 100 GHz, and 150 GHz channel spaces are available
- Up to 96 channels available
- Highly insensitive to center wavelength shift
- Fully integrated internal thermal regulation
- Telcordia GR-1209/ GR-1221 Qualified

Channel Counts	WavelengthRange	Type	Channel Spacing	Operating Temperature	Connector
up to 96	C-band/L-band/ O-band/C+L Band	Flat-top/Gaussian/ Ultra Wideband	50GHz/100GHz/ 150GHz	-5 to +65℃	SC/LC/FC Customized

Athermal AWG Module
LAN WDM Module

- 50 GHz, 75 GHz, 100 GHz, and 150 GHz channel spaces are available
- Up to 96 channels available
- Available in MUX and DMUX configurations
- C-temp and i-temp options
- Telcordia GR-1209/1221 compliant

	Channel Counts	Wavelength Range	Type	Channel Spacing	Operating Temperature	Connector
Athermal AWG Module	up to 96	C-band/L-band/ O-band/C+L Band	Flat-top/Gaussian/ Cyclic/ Ultra Wideband	50GHz/ 75GHz/ 100GHz/150GHz	-5 to +65℃ -40 to + 85℃	SC/LC/FC Customized
LAN WDM Module	6/8/12	O-band	N/A	800GHz	-5 to +65℃ -40 to + 85℃	SC/LC/FC Customized

VMUX Module

- Low loss VMUX devices with high attenuation accuracy and tuning range
- Low polarization dependency
- Allows the module to pre-equalize the optical power in all channels individually before amplification

Channel Counts	WavelengthRange	Type	Channel Spacing	Operating Temperature	Connector
40/48/60	C-band/L-band/ C+L Band	Flat-top	50GHz/100GHz/ 150GHz	-5 to +65℃	SC/LC/FC Customized

WDM-THIN-FILM-Filter
3-port Filter WDM、CWDM Module、DWDM Module

- Low insertion loss
- High channel isolation
- Compact design
- Telcordia GR-1209/1221 compliant

	Channel Counts	Wavelength Range	Type	Channel Spacing	Operating Temperature	Connector
3 Port Filter WDM	3	C-band/L-band/ O-band/C+L Band	N/A	50GHz/100GHz	-5 to +65℃ -40 to 85℃	SC/LC/FC Customized
CWDM Module	up to 16	C-band/L-band/ O-band/C+L Band	N/A	20nm	-5 to +65℃ -40 to 85℃	SC/LC/FC Customized
DWDM Module	up to 16	C-band/L-band/ O-band/C+L Band	N/A	50GHz/100GHz	-5 to +65℃ -40 to 85℃	SC/LC/FC Customized

VOA

MEMS VOA、PLC VOA

Ideal for receiver protection or transponder power control. Widely used in EDFAs for power equalization of all channels in multi-channel systems.

	Type	Wavelength Range	Attenuation Range	Domension	Operating Temperature	Drive Voltage
MEMS VOA	Dark/Bright	C-Band/C+L Band	10dB/20dB/30dB	Φ3.5/Φ5.4	-5 to +65℃	5V/6V
PLC VOA	Bright	C-Band/C+L Band	10dB/15dB	Customized	-5 to +65℃	5V

Optical Switch

Optical switches are mainly divided into mechanical type and micro-electromechanical MEMS type, which can be divided into 1×1, 1×2, 1×N, 2×2, 2×N, M×N and so on, and they have different uses in different occasions. Its application scope mainly includes: protection switching system of optical network, light source control in optical fiber testing, real-time monitoring system of network performance, testing of optical devices, building switching core of OXC equipment, optical add/drop multiplexing, optical testing, optical sensing system and so on.

Type	Wavelength Range	Switching Time	Durability	Operating Temperature	Drive Voltage
Mechanical/MEMS	C-Band/C+L Band	<8ms	≥10∧7 (cycles)	-20 to +70℃	3V/5V

50G PON

- Compliant with ITU-T G.984.2, ITU-T G.987.2, ITU-T G.9807.1, ITU-T G.9804.3& IEEE802.3
- Support GPON,10G EPON,XGS(XG)-PON,50G-PON and other access networks
- Up to 50G three-mode single-fiber six-way data link can be supported
- Package: QSFP28,QSFP-DD
- Operating case temperature: 0 to +70 ℃

	P/N	Class	Wavelength(nm)	Rate(Gb/s)	Package	Connector	Temp	LD/PD
GPON-XGSPON-50GPON Combo OLT	D2(3)GFfb-MSCB	B+/C+	Tx 1342+1577+1490 Rx 1286+1270+1310	Tx 49.76+9.95+2.48 Rx 24.88+9.95/2.48 +1.24	QSFP-DD	SC/UPC	C	EML+EML+DFB+APD+APD+APD
10G EPON-50GPON Combo OLT	D2GFfb-MSCC	N1	Tx 1342+1577 Rx 1286+1270	Tx 49.76+10.31 Rx 24.88+10.31 /1.25	QSFP-DD	SC/UPC	C	EML+EML+APD+APD
50G-PON OLT	D2GFfb-QSCB	N1	Tx 1342 Rx 1286	Tx 49.76 Rx 24.88	QSFP28	SC/UPC	C	EML+APD
50G-PON ONU	D2FGbf-QSCA	N1	Tx 1286 Rx 1342	Tx 24.88 Rx 49.76	QSFP28	SC/UPC	C	DML+APD

PON Optical Transceivers for FTTx

EPON/GPON/10G PON

- Compliant with ITU-T G.984.2, ITU-T G.987.2, ITU-T G.9807.1 & IEEE802.3
- Support EPON,GPON,10G EPON,XGS(XG)-PON and other access networks
- Up to 10G dual-mode single-fiber four-way data link can be supported
- Package: SFP, SFP+, DSFP, XFP
- Operating case temperature: 0 to +70 ℃or-40℃~+85℃

	P/N	Class	Wavelength(nm)	Rate(Gb/s)	Package	Connector	Temp	LD/PD
10G-EPON OLT	D2(3)7299-SSCB D2(3)7299-XSCB	PR30/ PR40	Tx 1577+1490 Rx 1270+1310	Tx 10.31+1.25 Rx 10.31+1.25	SFP+ XFP	SC/UPC	C	EML+DFB+ APD
10G-EPON ONU	D2(3)2799-SSHA	PR30/ PR40	Tx 1270 Rx 1577	Tx 10.31 Rx 10.31	SFP+	SC/UPC	I	DFB+APD
XG-PON OLT	D2(3)72R6-SSCA	N1/N2a	Tx 1577 Rx 1270	Tx 9.95 Rx 2.48	SFP+	SC/UPC	C	EML+APD
XG-PON ONU	D2276R-SSHA	N1	Tx 1270 Rx 1577	Tx 2.48 Rx 9.95	SFP+	SC/UPC	I	DFB+APD
XGS-PON OLT	D2(345)72RR-SSCC	N1/N2/ E1/E2	Tx 1577 Rx 1270	Tx 9.95 Rx 9.95/2.48	SFP+	SC/UPC	C	EML+APD
XGS-PON ONU	D227RR-SSHC	N1	Tx 1270 Rx 1577	Tx 9.95 Rx 9.95	SFP+	SC/UPC	I	DFB+APD
XG-PON Combo OLT	D2(345)72R6-SSCB D2(345)72R6-XSCB	B+/C+ /C++ /E1/E2	Tx 1577+1490 Rx 1270+1310	Tx 9.95+2.48 Rx 2.48+1.24	SFP+ XFP	SC/UPC	C	EML+DFB+ APD+APD
XGS-PON Combo OLT	D2(345)72RR-SSCB D2(345)72RR-GSCB	B+/C+ /C++ /E1/E2	Tx 1577+1490 Rx 1270+1310	Tx 9.95+2.48 Rx 9.95/2.48 +1.24	SFP+ DSFP	SC/UPC	C	EML+DFB+ APD+APD
EPON OLT	D2(34)4355-SSC(H)D	Px20+ /++/+++	Tx 1490 Rx 1310	Tx 1.25 Rx 1.25	SFP	SC/UPC	C/I	DFB+APD
GPON OLT	D2(345)4364-SSC(H)B	B+/C+ /C++/D	Tx 1490 Rx 1310	Tx 2.48 Rx 1.24	SFP	SC/UPC	C/I	DFB+APD
GPON ONU	D23446-SSHA	B+	Tx 1310 Rx 1490	Tx 1.24 Rx 2.48	SFP	SC/UPC	I	DFB+PIN

Active Optical Cables

AOC (Active Optical Cables) is a high-speed data transmission solution that integrates optical transceiver and optical fiber transmission medium. By integrating optical transceiver and optical cable, AOC realizes high-speed, low-power consumption and low-delay data transmission, which is suitable for data centers, enterprise networks, communication operator networks and other scenarios.

400G/800G

Package types of high-speed AOC products include:
QSFP56/QSFP-DD/QSFP112/ OSFP, etc., supporting Breakout applications with different packages and lengths.

	P/N	Distance	Wavelength (nm)	Rate(Gb/s)	Package	Connector	Temp	LD/PD
800G OSFP AOC	DH88ii-NCCA-xxx	up to 100m	850	800	OSFP	N/A	C	VCSEL+PIN
800G OSFP to 2×400G OSFP AOC	DH88ii-NCCB-xxx	up to 100m	850	800/400	OSFP	N/A	C	VCSEL+PIN
400G QSFP-DD to QSFP112 AOC	DH88mm-MCCF-xxx	up to 100m	850	400	QSFP-DD/ QSFP112	N/A	C	VCSEL+PIN
400G QSFP-DD to OSFP AOC	DH88mm-MCCE-xxx	up to 100m	850	400	QSFP-DD/ OSFP	N/A	C	VCSEL+PIN
400G QSFP112 AOC	DH88mm-KCCA-xxx	up to 100m	850	400	QSFP	N/A	C	VCSEL+PIN
400G QSFP112 to OSFP AOC	DH88mm-KCCA-xxx	up to 100m	850	400	QSFP112/ OSFP	N/A	C	VCSEL+PIN
400G QSFP-DD to 2*200G QSFP112 AOC	DH88mm-MCCF-xxx	up to 100m	850	400/200	QSFP-DD/ QSFP112	N/A	C	VCSEL+PIN
400G OSFP to 2*200G QSFP112 AOC	DH88mm-NCCB-xxx	up to 100m	850	400/200	OSFP/ QSFP112	N/A	C	VCSEL+PIN
400G OSFP AOC	DH88mm-NCCA-xxx	up to 100m	850	400	OSFP	N/A	C	VCSEL+PIN
400G QSFP-DD to 4x100G QSFP56 AOC	DH88mm-MCCD-xxx	up to 100m	850	400/100	QSFP-DD/ QSFP56	N/A	C	VCSEL+PIN
400G QSFP-DD to 2×200G QSFP56 AOC	DH88mm-MCCB-xxx	up to 100m	850	400/200	QSFP-DD/ QSFP56	N/A	C	VCSEL+PIN
400G QSFP-DD AOC	DH88mm-MCCA-xxx	up to 100m	850	400	QSFP-DD	N/A	C	VCSEL+PIN

Active Optical Cables

10G-200G

Package types of AOC products of 200G and below include: QSFP56/QSFP28/QSFP+/SFP28/SFP+/DSFP, etc., supporting Breakout applications with different packages and lengths.

	P/N	Distance	Wavelength (nm)	Rate (Gb/s)	Package	Connector	Temp	LD/PD
200G QSFP112 AOC	DH88jj-KCCE-xxx	up to 100m	850	200	QSFP112	N/A	C	VCSEL+PIN
200G QSFP56 AOC	DH88jj-KCCA-xxx	up to 100m	850	200	QSFP56	N/A	C	VCSEL+PIN
200G QSFP56 to 2x100G QSFP56 AOC	DH88jj-KCCB-xxx	up to 100m	850	200/100	QSFP56	N/A	C	VCSEL+PIN
100G QSFP28 AOC	DH88hh-QCCA-xxx	up to 100m	850	100	QSFP28	N/A	C	VCSEL+PIN
100G QSFP28 to 4x25G SFP28 AOC	DH88hh-QCCC-xxx	up to 100m	850	100/25	QSFP28/ SFP28	N/A	C	VCSEL+PIN
100G DSFP AOC	DH88hh-GCCA-xxx	up to 100m	850	100	DSFP	N/A	C	VCSEL+PIN
100G QSFP56 to DSFP AOC	DH88hh-GCCB-xxx	up to 100m	850	100	QSFP56/ DSFP	N/A	C	VCSEL+PIN
40G QSFP+ AOC	DH88kk-QCCA-xxx	up to 100m	850	40	QSFP+	N/A	C	VCSEL+PIN
40G QSFP+ to 4×10G SFP+ AOC	DH88kk-QCCB-xxx	up to 100m	850	40/10	QSFP+ SFP+	N/A	C	VCSEL+PIN
25G SFP28 AOC	DH88bb-SCCA-xxx	up to 100m	850	25	SFP28	N/A	C	VCSEL+PIN
10G SFP+ AOC	D08899-SCCA-xxx	up to 300m	850	10	SFP+	N/A	C	VCSEL+PIN

Direct Attach Cables

10G—800G

DAC(Direct Attach Cable) passive copper cable can provide 10G~800G interfaces with different rates, and various topologies such as Breakout. Package types include SFP+, QSFP, QSFP-DD, OSFP, etc. Suitable for data centers and other scenarios, providing short-distance interconnection solutions for switches, servers and storage devices in the same cabinet.

	P/N	Distance	Wavelength (nm)	Rate(Gb/s)	Package	Connector	Temp	LD/PD
800G OSFP DAC	DHZZii-NCCA-xxx	up to 1.5m	N/A	800	OSFP	N/A	C	N/A
400G QSFP112 DAC	DHZZmm-KCCA-xxx	up to 1.5m	N/A	400	QSFP112	N/A	C	N/A
400G QSFP112 to 2x200G QSFP112 DAC	DHZZmm-KCCC-xxx	up to 1.5m	N/A	400/200	QSFP112	N/A	C	N/A
400G QSFP-DD DAC	DHZZmm-MCCA-xxx	up to 3m	N/A	400	QSFP-DD	N/A	C	N/A
400G QSFP-DD to 2x200G QSFP56 DAC	DHZZmm-MCCC-xxx	up to 3m	N/A	400/200	QSFP-DD QSFP56	N/A	C	N/A
400G QSFP-DD to 4x100G QSFP56 DAC	DHZZmm-MCCE-xxx	up to 3m	N/A	400/100	QSFP-DD QSFP56	N/A	C	N/A
200G QSFP56 DAC	DHZZjj-KCCA-xxx	up to 3m	N/A	200	QSFP56	N/A	C	N/A
200G QSFP56 to 2x100G QSFP56 DAC	DHZZjj-KCCC-xxx	up to 3m	N/A	200/100	QSFP56	N/A	C	N/A
100G QSFP28 DAC	DHZZhh-QCCA-xxx	up to 5m	N/A	100	QSFP28	N/A	C	N/A
40G QSFP+ DAC	DHZZkk-QCCA-xxx	up to 5m	N/A	40	QSFP+	N/A	C	N/A
25G SFP28 DAC	DHZZbb-SCCA-xxx	up to 5m	N/A	25	SFP28	N/A	C	N/A
10G SFP+ DAC	D0ZZ99-SCCA-xxx	up to 5m	N/A	10	SFP+	N/A	C	N/A

Active Copper Cables

10G—400G

ACC(Active Copper Cable) active copper cable can provide 10G~400G interfaces with different rates, and various topologies such as Breakout. Package types include SFP+, QSFP, QSFP-DD, etc. Suitable for data centers and other scenarios, providing short-distance interconnection solutions for switches, servers and storage devices in the same cabinet or between different cabinets.

	P/N	Distance	Wavelength (nm)	Rate(Gb/s)	Package	Connector	Temp	LD/PD
400G QSFP112 ACC	DHZZmm-KCCB-xxx	up to 3m	N/A	400	QSFP112	N/A	C	N/A
400G QSFP112 to 2x200G QSFP112 ACC	DHZZmm-KCCD-xxx	up to 3m	N/A	400/200	QSFP112	N/A	C	N/A
400G QSFP-DD ACC	DHZZmm-MCCB-xxx	up to 5m	N/A	400	QSFP-DD	N/A	C	N/A
400G QSFP-DD to 2x200G QSFP56 ACC	DHZZmm-MCCD-xxx	up to 5m	N/A	400/200	QSFP-DD QSFP56	N/A	C	N/A
400G QSFP-DD to 4x100G QSFP56 ACC	DHZZmm-MCCF-xxx	up to 5m	N/A	400/100	QSFP-DD QSFP56	N/A	C	N/A
200G QSFP56 ACC	DHZZjj-KCCB-xxx	up to 7m	N/A	200	QSFP56	N/A	C	N/A
200G QSFP56 to 2x100G QSFP56 ACC	DHZZjj-KCCD-xxx	up to 7m	N/A	200/100	QSFP56	N/A	C	N/A
100G QSFP28 to 4x25G SFP28 ACC	DHZZhh-QCCF-xx	up to 9m	N/A	100/25	QSFP28 SFP28	N/A	C	N/A
100G QSFP28 ACC	DHZZhh-QCCE-xxx	up to 9m	N/A	100	QSFP28	N/A	C	N/A
40G QSFP+ to 4x10G SFP+ ACC	DHZZkk-QCCD-xxx	up to 9m	N/A	40	QSFP+ SFP+	N/A	C	N/A
40G QSFP+ ACC	DHZZkk-QCCC-xxx	up to 9m	N/A	40	QSFP+	N/A	C	N/A
25G SFP28 ACC	DHZZbb-SCCB-xxx	up to 9m	N/A	25	SFP28	N/A	C	N/A
10G SFP+ ACC	D0ZZ99-SCCB-xxx	up to 9m	N/A	10	SFP+	N/A	C	N/A

Active Electrical Cables

400G-800G

AEC(Active Electrical Cable) active cable can provide 400G and 800G interfaces with different rates, and various topologies such as Breakout. Package types include QSFP112, QSFP-DD, OSFP, etc. Suitable for data centers and other scenarios, providing short-distance interconnection solutions for switches, servers and storage devices in the same cabinet or between different cabinets.

	P/N	Distance	Wavelength (nm)	Rate(Gb/s)	Package	Connector	Temp	LD/PD
800G OSFP AEC	DHZZii-NCCC-xxx	up to 7m	N/A	800	OSFP	N/A	C	N/A
800G OSFP AEC to 800G OSFP DAC	DHZZii-NCCD-xxx	up to 3m	N/A	800	OSFP	N/A	C	N/A
800G OSFP AEC to 2x400G QSFP112 AEC	DHZZii-NCCE-xxx	up to 7m	N/A	800	OSFP QSFP112	N/A	C	N/A
800G OSFP AEC to 800G QSFP-DD AEC	DHZZii-NCCF-xxx	up to 7m	N/A	800	OSFP QSFP-DD	N/A	C	N/A
800G QSFP-DD AEC	DHZZii-MCCA-xxx	up to 7m	N/A	800	QSFP-DD	N/A	C	N/A
800G QSFP-DD AEC to 2x400G QSFP112 AEC	DHZZii-MCCB-xxx	up to 7m	N/A	800	QSFP-DD QSFP112	N/A	C	N/A
800G QSFP-DD AEC to 800G OSFP DAC	DHZZii-MCCC-xxx	up to 3m	N/A	800	QSFP-DD OSFP	N/A	C	N/A
400G QSFP112 AEC	DHZZmm-KCCE-xxx	up to 7m	N/A	400	QSFP112	N/A	C	N/A
400G QSFP112 to 2x200G QSFP112 AEC	DHZZmm-KCCG-xxx	up to 7m	N/A	400	QSFP112	N/A	C	N/A

Siph

400G and 800G silicon optoelectronic modules adopt leading digital signal processors and 3D packaging technology. Integrated detector, transimpedance amplifier, modulator, driver, silicon waveguide and other photoelectric chips, achieving a high degree of silicon optical integration, which can provide 400G, 800G interfaces with different rates, and the package types include QSFP112, QSFP-DD, OSFP, etc. Suitable for scenarios such as data, cloud computing and high performance computing.

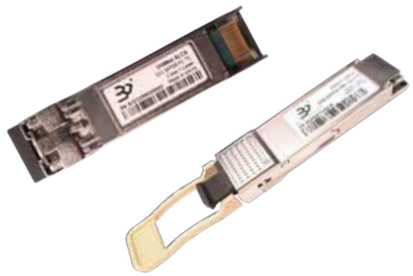
	P/N	Distance	Wavelength (nm)	Rate(Gb/s)	Package	Connector	Temp	LD/PD
800G OSFP 2xDR4 (Siph)	DK33ii-NMCB	up to 500m	1310	800	OSFP	2*12 MPO/ APC	C	DFB+PIN
800G OSFP DR8 (Siph)	DK33ii-NMCA	up to 500m	1310	800	OSFP	1*16 MPO/ APC	C	DFB+PIN
800G OSFP 2xFR4 (Siph)	DDCCii-NLCA	up to 2km	1271/1291/ 1311/1331	800	OSFP	LC/UPC	C	DFB+PIN
400G QSFP112 FR4 (Siph)	DDCCmm-KLCA	up to 2km	1271/1291/ 1311/1331	400	QSFP112	LC/UPC	C	DFB+PIN
400G QSFP-DD/OSFP DR4 (Siph)	DK33mm-MMCA DK33mm-NMCA	500m	1310	400	QSFP-DD OSFP	1*12 MPO/ APC	C	DFB+PIN
400G QSFP-DD /OSFP XDR4 (Siph)	DD33mm-MMCA DD33mm-NMCA	2km	1310	400	QSFP-DD OSFP	1*12 MPO/ APC	C	DFB+PIN

Optical Transceivers for Datacom
BROADEX TECHNOLOGIES

400G-800G

400G/800G optical transceivers are a new generation of high-speed optical transceivers. With a transmission rate as high as 400Gbps/800Gbps, they can meet the high bandwidth requirements of large-scale data centers, cloud computing and high-performance computing. They play an important role in HDR (High Data Rate) and NDR (Next Data Rate) network applications, and can provide high-speed and high-bandwidth data transmission capability to meet the growing data demand. Their package types include: QSFP112, QSFP-DD, OSFP, etc.

	P/N	Distance	Wavelength (nm)	Rate (Gb/s)	Package	Connector	Temp	LD/PD
800G QSFP-DD 2×FR4	DDCCii-MLCA	up to 2km	1271/ 1291/ 1311/ 1331	800	QSFP-DD	LC/UPC	C	EML+PIN
800G QSFP-DD DR8	DK33ii-MMCA	up to 2km	1310	800	QSFP-DD	1*16 MPO/APC	C	EML+PIN
400G QSFP-DD FR4	DDCCmm-MLCA	2km	1310	400	QSFP-DD	LC/UPC	C	EML+PIN
400G QSFP112 DR4	DK33mm-KMCA	500m	1310	400	QSFP112	1*12 MPO/APC	C	EML+PIN
400G QSFP-DD MDC DR4	DK33mm-MLCA	500m	1310	400	QSFP-DD	4*MDC	C	EML+PIN
800G OSFP SR8	DH88ii-NMCA	100m	850	800	OSFP	2*12 MPO/APC	C	VCSEL+PIN
400G QSFP112/ QSFP-DD/OSFP SR4	DH88hh-KMCA DK88hh-MMCC DH88hh-NMCA	100m	850	400	QSFP112 QSFP-DD OSFP	1*12 MPO/APC	C	VCSEL+PIN
400G QSFP-DD SR8	DH88mm-MMCA	100m	850	400	QSFP-DD	1*16 MPO/APC	C	VCSEL+PIN



10G to 200G products cover a variety of optical transceivers and optical fiber transmission solutions, which are suitable for high-speed data transmission requirements in different scenarios.

They are suitable for enterprise networks, storage networks, operator networks, data centers, large-scale cloud computing and other scenarios.

	P/N	Distance	Wavelength (nm)	Rate(Gb/s)	Package	Connector	Temp	LD/PD
200G QSFP56 SR4	DH88jj-KMCA	100m	850	200	QSFP56	1*12 MPO/APC	C	VCSEL+PIN
100G QSFP28 SR4	DH88hh-QMCA	100m	850	100	QSFP28	1*12 MPO/UPC	C	VCSEL+PIN
100G QSFP28 CWDM4	DDCChh-QLCA	2km	1271/1291/ 1311/1331	100	QSFP28	LC/UPC	C	DFB+PIN
100G QSFP28 LR4	D1TThh-QLCA	10km	1295.56/ 1300.05/ 1304.58/ 1309.14	100	QSFP28	LC/UPC	C	DML+PIN
100G QSFP28 ZR4	D7TThh-QLCA	80km	1295.56/ 1300.05/ 1304.58/ 1309.14	100	QSFP28	LC/UPC	C	EML+PIN
40G QSFP+ SR4	DH88kk-QMCA	300m	850	40	QSFP+	1*12 MPO/UPC	C	VCSEL+PIN
40G QSFP+ LR4	D1CCkk-QLCA	10km	1271/1291/ 1311/1331	40	QSFP+	LC/UPC	C	DFB+PIN
32G SFP28 FC	DH88ee-SLCA	100m	850	32	SFP28	LC/UPC	C	VCSEL+PIN
25G SFP28 SR	DH88bb-SLCA	100m	850	25	SFP28	LC/UPC	C	VCSEL+PIN
25G SFP28 LR	D133bb-SLHC	10km	1310	25	SFP28	LC/UPC	C	DFB+PIN
16G SFP+ FC	D088XX-SLCA	100m	850	16	SFP+	LC/UPC	C	VCSEL+PIN
10G SFP+ SR	D08899-SLCA	300m	850	10	SFP+	LC/UPC	C	VCSEL+PIN
10G SFP+ LR	D13399-SLC(H)A	10km	1310	10	SFP+	LC/UPC	C	DFB+PIN