OPWAY IS WHOLLY-OWNED SUBSIDIARY TO TONGYU COMMUNICATION INC. (STOCK CODE: 002792)

OPWAY communication

PRODUCT CATALOGUE

Ver 2022

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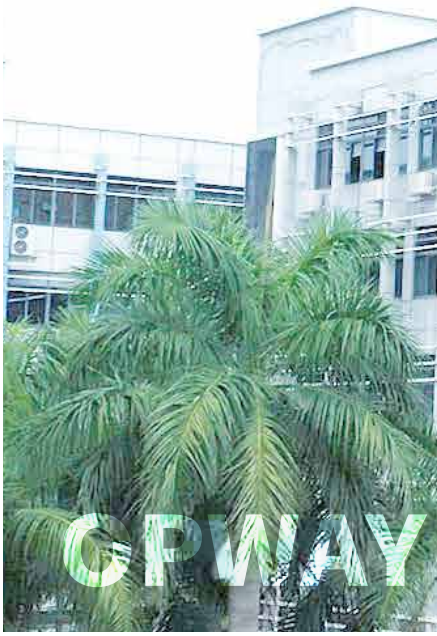
COMPANY PROFILE

SHENZHEN OPWAY COMMUNICATION CO., LTD IS WHOLLY-OWNED SUBSIDIARY OF TONGYU COMMUNICATION INC.(STOCK CODE:002792). OPWAY HAS BEEN DEDICATED TO THE OPTICAL TRANSCIVER DESIGN AND MANUFACTURE SINCE 2010.NOW IT IS ONE OF THE MAINSTREAM OPTICAL TRANSCEIVER SUPPLIERS WITH 5 MILLION UNITS OF ANNUAL SHIPMENT. WITH THE HIGH ATTENTION OF THE OPTICAL COMMUNICATION INDUSTRY AND YEARS OF RICH EXPERIENCE,OPWAY CAN PROVIDE FULL RANGE OF OPTICAL TRANSCEIVER PRODUCTS AND SOLUTIONS,THE PRODUCTS ARE WIDELY USED IN THE MAN, LAN, FIBER CHANNEL NETWORK,WIRELESS NETWORKS, DATA CENTER, CLOUD COMPUTING AND OTHER FIELDS.

TONGYU COMMUNICATION PLANS TO INVEST ¥520 MILLION TO BUILD A NEW OPWAY IN AN ALL-ROUND WAY, AND COMPREHENSIVELY IMPROVE OPWAY'S STRENGTH.THIS FUND WILL BE MAINLY USED FOR RESEARCH AND DEVELOPMENT OF HIGH SPEED OPTICAL MODULE AND HIGH SPEED OPTICAL COMPONENT . OPWAY WILL ACHIEVE A MAJOR BREAKTHROUGH IN PRODUCTS AND TECHNOLOGY, ENHANCE THE CORE COMPETITIVENESS.



ENTERPRISE SPIRIT

ENTREPRENEURIAL SPIRIT: PRAGMATIC INNOVATION, HARD WORK, NEVER GIVE UP
OUR TEAM: UNITY AND COOPERATION, FULL OF WOLF SPIRIT, COME UPON CALL, COME TO FIGHT, FIGHT TO WIN
OUR STATE: SUNSHINE, JOY, PASSION, FULL OF POSITIVE ENERGY
OUR STYLE: HUMBLE, DILIGENT, PROFESSIONAL, GRATEFUL, AND RESPONSIBLE

COMMUNICATION

Sep 2014

Awarded

“National High-tech Enterprise”

01

02

Dec 2018

Awarded

“High-speed Optical Transceiver

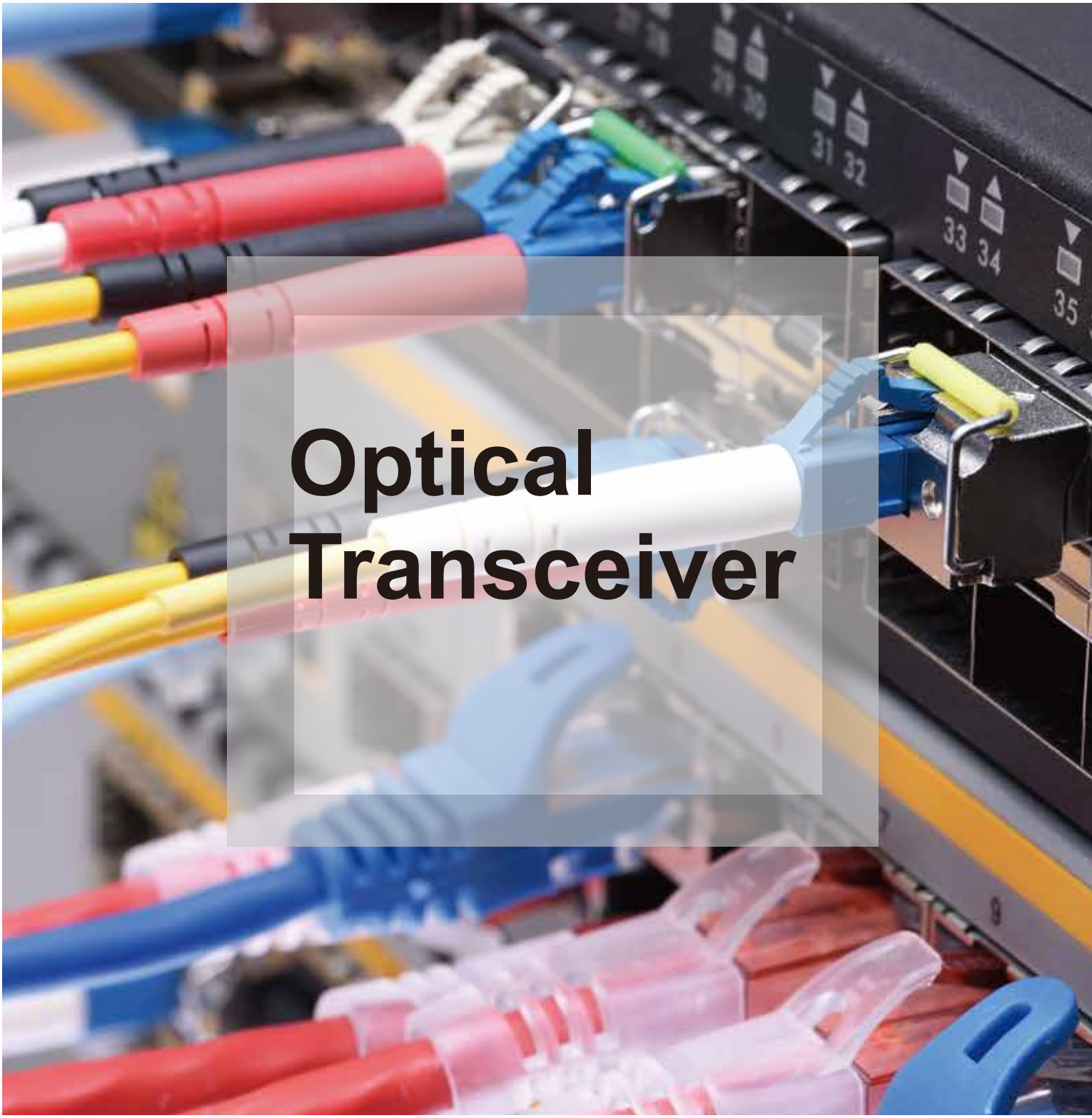
Engineering Research Center for 5G and IDC”

Jan 2022

Awarded

"distinctive, specialized, sophisticated and new enterprise" in Guangdong Province

03



Optical Transceiver

400G QSFP-DD
SOLUTIONS

Application

400GBASE Ethernet/Data center/cloud network

400G QSFP-DD

Features

- Hot-pluggable QSFP-DD package
- Compliant with QSFP-DD MSA
- Compliant to IEEE 802.3bs
- Supports 425Gb/s data rate
- Maximum link up to 40km
- Single +3.3V power supply
- Operating temperature range:0~70°C
- Built-in digital diagnostic functions
- RoHS compliant

Part Number	Data Rate	Package	Distance	Wavelength	Connector	Tx	Rx	Cable
OPDJ01-8	400Gb/s	QSFP-DD	100M	850nm	MPO-16/24	VCSEL	PIN	MM
OPDJ05-4	400Gb/s	QSFP-DD	500M	1310nm	MPO-12	EML	PIN	SM
OPDJ02	400Gb/s	QSFP-DD	2KM	CWDM	Dual LC	EML	PIN	SM
OPDJ10	400Gb/s	QSFP-DD	10KM	LWDM	Dual LC	EML	PIN	SM
OPDJ40	400Gb/s	QSFP-DD	40KM	LWDM	Dual LC	EML	APD	SM

200G QSFP56/QSFP-DD
SOLUTIONS

Application

200GBASE Ethernet/Data center/cloud network
5G midhaul and backhaul

Features

- Hot-pluggable QSFP56 or QSFP-DD package
- Compliant with QSFP56 or QSFP-DD MSA
- Supports 212.5Gb/s data rate
- Maximum link up to 40km
- Single +3.3V power supply
- Operating temperature range:0~70℃
- Built-in digital diagnostic functions
- RoHS compliant

200G QSFP56

Part Number	Data Rate	Package	Distance	Wavelength	Connector	Tx	Rx	Cable
OPQH01	200Gb/s	QSFP56	100M	850nm	MPO-12	VCSEL	PIN	MM
OPQH02	200Gb/s	QSFP56	2KM	CWDM	Dual LC	DML	PIN	SM
OPDH10	200Gb/s	QSFP-DD	10KM	LWDM	Dual LC	EML	PIN	SM
OPDH40	200Gb/s	QSFP-DD	40KM	LWDM	Dual LC	EML	APD	SM

100G QSFP28
SOLUTIONS

Application

100G Data center internal network/
Data center interconnection/MAN

100G QSFP28

Features

- Hot-pluggable QSFP28 package
- Compliant with QSFP28 MSA
- Four channels design, supports 25.78Gb/s data rate or 27.95Gb/s data rate single channel
- Maximum link up to 80km
- Single +3.3V power supply
- Operating temperature range:0~70°C
- Built-in digital diagnostic functions
- RoHS compliant

Part Number	Data Rate	Package	Distance	Wavelength	Connector	Tx	Rx	Cable
OPQE01	103Gb/s	QSFP28	100M	850nm	MPO-12	VCSEL	PIN	MM
OPQE02	103Gb/s	QSFP28	2KM	CWDM	Dual LC	DFB	PIN	SM
OPQE02-M	103Gb/s	QSFP28	2KM/150M	CWDM	Dual LC	DFB	PIN	SM/MM
OPQE02-4	103Gb/s	QSFP28	2KM	1310nm	MPO-12	DFB	PIN	SM
OPQE10	103/112Gb/s	QSFP28	10KM	LWDM	Dual LC	DML	PIN	SM
OPQE10-S	103Gb/s	QSFP28	10KM	LWDM	Dual LC	DML	PIN	SM
OPQE10-RX	103Gb/s	QSFP28	10KM	/	Single LC	/	PIN	SM
OPQE30	103/112Gb/s	QSFP28	30KM	LWDM	Dual LC	DML	PIN	SM
OPQE40	103/112Gb/s	QSFP28	30KM/40KM (FEC)	LWDM	Dual LC	DML	APD	SM
OPQE40-E	103/112Gb/s	QSFP28	40KM	LWDM	Dual LC	EML	APD	SM
OPQE40-RX	103/112Gb/s	QSFP28	40KM	/	Single LC	/	APD	SM
OPQE80	103Gb/s	QSFP28	80KM (FEC)	LWDM	Dual LC	EML	SOA+PIN	SM

100G QSFP28
SOLUTIONS

Application

100GBASE Ethernet

Telecommunication transmission network

Features

- Hot-pluggable QSFP28
- Compliant with 100G Lambada MSA
- Single channel design, supports 106.25Gb/s data rate
- Maximum link up to 40km
- Single +3.3V power supply
- Operating temperature range:0~70℃
- Built-in digital diagnostic functions
- RoHS compliant

100G QSFP28 Single Lambda

Part Number	Data Rate	Package	Distance	Wavelength	Connector	Tx	Rx	Cable
OPQE05-SW	106.25Gb/s	QSFP28	500M	1310nm	Dual LC	EML	PIN	SM
OPQE02-SW	106.25Gb/s	QSFP28	2KM	1310nm	Dual LC	EML	PIN	SM
OPQE10-SW	106.25Gb/s	QSFP28	10KM	1310nm	Dual LC	EML	PIN	SM
OPQE40-SW	106.25Gb/s	QSFP28	40KM	1309nm	Dual LC	EML	APD	SM
OPHE10-2733	106.25Gb/s	QSFP28	10KM	1270/1330nm	Single LC	EML	PIN	SM
OPHE10-3327	106.25Gb/s	QSFP28	10KM	1330/1270nm	Single LC	EML	PIN	SM
OPHE40-0409	106.25Gb/s	QSFP28	40KM	1304/1309nm	Single LC	EML	APD	SM
OPHE40-0904	106.25Gb/s	QSFP28	40KM	1309/1304nm	Single LC	EML	APD	SM

100G CFPx
SOLUTIONS

Application

100GBASE Ethernet/OTU4

100G CFPx

Features

- Hot-pluggable CFP/CFP2/CFP4 package
- Compliant with CFP/CFP2/CFP4 MSA
- Four channels design, supports 25.78Gb/s data rate or 27.95Gb/s data rate single channel
- Maximum link up to 80km
- Single +3.3V power supply
- Operating temperature range:0~70℃
- Built-in digital diagnostic functions
- RoHS compliant

Part Number	Data Rate	Package	Distance	Wavelength	Connector	Tx	Rx	Cable
OPC4E10	112Gb/s	CFP4	10KM	LWDM	Dual LC	EML	PIN	SM
OPC2E10	112Gb/s	CFP2	10KM	LWDM	Dual LC	DML	PIN	SM
OPC2E10-RX	112Gb/s	CFP2	10KM	/	Single LC	/	PIN	SM
OPC2E40	112Gb/s	CFP2	40KM	LWDM	Dual LC	EML	SOA+PIN	SM
OPC2E80	103Gb/s	CFP2	80KM	LWDM	Dual LC	EML	SOA+PIN	SM
OPCFE10	112Gb/s	CFP	10KM	LWDM	Dual LC	EML	PIN	SM
OPCFE40	112Gb/s	CFP	40KM	LWDM	Dual LC	EML	SOA+PIN	SM

50G QSFP28
SOLUTIONS

Application

5G midhaul and backhaul

Features

- Hot-pluggable QSFP28 package
- Compliant with QSFP28 MSA
- Single channel design, supports 53.125Gb/s data rate
- Maximum link up to 40km
- Single +3.3V power supply
- Operating temperature range:0~70℃
- Built-in digital diagnostic functions
- RoHS compliant

50G QSFP28

Part Number	Data Rate	Package	Distance	Wavelength	Connector	Tx	Rx	Cable
OPQG10	50Gb/s	QSFP28	10KM	1310nm	Dual LC	DML	PIN	SM
OPQG40	50Gb/s	QSFP28	40KM	1310nm	Dual LC	EML	APD	SM
OPHG10-2733	50Gb/s	QSFP28	10KM	TX1270/RX1330	Single LC	DML	PIN	SM
OPHG10-3327	50Gb/s	QSFP28	10KM	TX1270/RX1330	Single LC	DML	PIN	SM
OPHG40-2930	50Gb/s	QSFP28	40KM	TX1295/RX1309	Single LC	EML	APD	SM
OPHG40-3029	50Gb/s	QSFP28	40KM	TX1309/RX1295	Single LC	EML	APD	SM

40G QSFP+
SOLUTIONS

Application

Data center/campus network/MAN

40G QSFP+

Features

- Hot-pluggable QSFP+ package
- Compliant with QSFP+ MSA
- Four channels design, supports 11.2Gb/s data rate single channel
- Maximum link up to 40km
- Single +3.3V power supply
- Operating temperature range:0~70℃
- Built-in digital diagnostic functions
- RoHS compliant

Part Number	Data Rate	Package	Distance	Wavelength	Connector	Tx	Rx	Cable
OPQC01	40Gb/s	QSFP+	100M	850nm	MPO-12	VCSEL	PIN	MM
OPQC03	40Gb/s	QSFP+	300M	850nm	MPO-12	VCSEL	PIN	MM
OPQC02	40Gb/s	QSFP+	2KM	CWDM	Dual LC	DFB	PIN	SM
OPQC02-4	40Gb/s	QSFP+	2KM	1310nm	MPO-12	DFB	PIN	SM
OPQC02-M	40Gb/s	QSFP+	2KM/100M	CWDM	Dual LC	DFB	PIN	SM/MM
OPQC10	40Gb/s	QSFP+	10KM	CWDM	Dual LC	DFB	PIN	SM
OPQC10-4	40Gb/s	QSFP+	10KM	1310nm	MPO-12	DFB	PIN	SM
OPQC40	40Gb/s	QSFP+	40KM	CWDM	Dual LC	DFB	APD	SM

25G SFP28
SOLUTIONS

Application

Data center/25GBASE Etherent，5G fronthaul/ Fiber channel

Features

- Hot-pluggable SFP28 package
- Compliant with SFP28 MSA
- Supports 25.78Gb/s data rate
- Maximum link up to 40km
- Single +3.3V power supply
- Operating temperature range:0~70℃ or -40~+85℃ optional
- Built-in digital diagnostic functions
- RoHS compliant

25G SFP28

Part Number	Data Rate	Package	Distance	Wavelength	Connector	Tx	Rx	Cable
OP3001D	25Gb/s	SFP28	100M	850nm	Dual LC	VCSEL	PIN	MM
OP3003D	25Gb/s	SFP28	300M	1310nm	Dual LC	DFB	PIN	SM
OP3010D	25Gb/s	SFP28	10KM	1310nm	Dual LC	DFB	PIN	SM
OP3040D	25Gb/s	SFP28	30KM/40KM (FEC)	1310nm	Dual LC	DFB	APD	SM
OP3040D-E	25Gb/s	SFP28	40KM	1310nm	Dual LC	EML	APD	SM
OP5010D-2733	25Gb/s	SFP28	10KM	TX1270/RX1330	Single LC	DFB	PIN	SM
OP5010D-3327	25Gb/s	SFP28	10KM	TX1330/RX1270	Single LC	DFB	PIN	SM
OP5040D-2731	25Gb/s	SFP28	40KM	TX1270/RX1310	Single LC	DFB	APD	SM
OP5040D-3127	25Gb/s	SFP28	40KM	TX1310/RX1270	Single LC	DFB	APD	SM
OP3010D-XX	25Gb/s	SFP28	10KM	1270~1370nm	Dual LC	DFB	PIN	SM
OP3010D-XX	25Gb/s	SFP28	10KM	1470~1570nm	Dual LC	EML	PIN	SM
OP3010D-DXX	25Gb/s	SFP28	10KM	DWDM ITU	Dual LC	EML	PIN	SM
OP3010D-TUN48	25Gb/s	SFP28	10KM	Tunable DWDM (48λ)	Dual LC	EML	PIN	SM
OP3010D-LXXX	25Gb/s	SFP28	10KM	LWDM	Dual LC	DFB	PIN	SM
OP3040D-LXXX	25Gb/s	SFP28	40KM	LWDM	Dual LC	EML	APD	SM
OP3010D-MXXX	25Gb/s	SFP28	10KM	MWDM	Dual LC	DFB	PIN	SM

10G XFP
SOLUTIONS

Application

SONET OC-192/SDH STM-64
10GBASE Ethernet

10G XFP

Features

- Hot-pluggable XFP package
- Compliant with XFP MSA
- Support multi protocol from 9.9Gb/s ~ 11.3Gb/s
- Maximum link up to 80km
- Operating temperature range:0~70°C or -40~+85°C optional
- Built-in digital diagnostic functions
- RoHS compliant

Part Number	Data Rate	Package	Distance	Wavelength	Connector	Tx	Rx	Cable
OP8903	10Gb/s	XFP	300M	850nm	Dual LC	VCSEL	PIN	MM
OP8902	10Gb/s	XFP	220M	1310nm	Dual LC	FP	PIN	MM
OP8904	10Gb/s	XFP	2KM	1310nm	Dual LC	FP	PIN	SM
OP8910	10Gb/s	XFP	10KM	1310nm	Dual LC	DFB	PIN	SM
OP8940-13	10Gb/s	XFP	40KM	1310nm	Dual LC	DFB	PIN	SM
OP8940	10Gb/s	XFP	40KM	1550nm	Dual LC	EML	PIN	SM
OP8980	10Gb/s	XFP	80KM	1550nm	Dual LC	EML	APD	SM
10G Bi-Di XFP								
OPP910-2733	10Gb/s	XFP	10KM	TX1270/RX1330	Single LC	DFB	PIN	SM
OPP910-3327	10Gb/s	XFP	10KM	TX1330/RX1270	Single LC	DFB	PIN	SM
OPP940-2733	10Gb/s	XFP	40KM	TX1270/RX1330	Single LC	DFB	PIN	SM
OPP940-3327	10Gb/s	XFP	40KM	TX1330/RX1270	Single LC	DFB	PIN	SM
OPP960-2733	10Gb/s	XFP	60KM	TX1270/RX1330	Single LC	DFB	APD	SM
OPP960-3327	10Gb/s	XFP	60KM	TX1330/RX1270	Single LC	DFB	APD	SM
OPP980-45	10Gb/s	XFP	80KM	TX1490/RX1550	Single LC	EML	APD	SM
OPP980-54	10Gb/s	XFP	80KM	TX1550/RX1490	Single LC	EML	APD	SM

10G XFP
SOLUTIONS

Application

SONET OC-192/SDH STM-64
10GBASE Ethernet

Features

- Hot-pluggable XFP package
- Compliant with XFP MSA
- Support multi protocol from 9.9Gb/s ~ 11.3Gb/s
- 1270~1610nm CWDM, ITU DWDM select
- Maximum link up to 80km
- Dual LC connector
- Operating temperature range:0~70°Cor -40~+85°C optional
- Built-in digital diagnostic functions
- RoHS compliant

10G CWDM&DWDM XFP

Part Number	Data Rate	Package	Distance	Wavelength	Connector	Tx	Rx	Cable
OP8910-XX	10Gb/s	XFP	10KM	1270~1610nm	Dual LC	DFB	PIN	SM
OP8940-XX	10Gb/s	XFP	40KM	1270~1450nm	Dual LC	DFB	PIN	SM
OP8940-XX	10Gb/s	XFP	40KM	1470~1610nm	Dual LC	EML	PIN	SM
OP8960-XX	10Gb/s	XFP	60KM	1270~1450nm	Dual LC	DFB	APD	SM
OP8980-XX	10Gb/s	XFP	80KM	1470~1610nm	Dual LC	EML	APD	SM
OP8940-DXX	10Gb/s	XFP	40KM	DWDM ITU	Dual LC	EML	PIN	SM
OP8980-DXX	10Gb/s	XFP	80KM	DWDM ITU	Dual LC	EML	APD	SM

10G SFP+
SOLUTIONS

Application

SONET OC-192/SDH STM-64
10GBASE Ethernet

10G SFP+

Features

- Hot-pluggable SFP+ package
- Compliant with SFP+ MSA
- Single +3.3V power supply
- Support multi protocol up to 11.3Gb/s
- Maximum link up to 100km
- Dual LC connector
- Operating temperature range:0~70°C or -40~+85°C optional
- Built-in digital diagnostic functions
- RoHS compliant

Part Number	Data Rate	Package	Distance	Wavelength	Connector	Tx	Rx	Cable
OP3902D	10Gb/s	SFP+	220M	1310nm	Dual LC	FP	PIN	MM
OP3903D	10Gb/s	SFP+	300M	850nm	Dual LC	VCSEL	PIN	MM
OP3904D	10Gb/s	SFP+	2KM	1310nm	Dual LC	FP	PIN	SM
OP3910D	10Gb/s	SFP+	10KM	1310nm	Dual LC	DFB	PIN	SM
OP3940D-13	10Gb/s	SFP+	40KM	1310nm	Dual LC	DFB	PIN	SM
OP3940D	10Gb/s	SFP+	40KM	1550nm	Dual LC	EML	PIN	SM
OP3980D	10Gb/s	SFP+	80KM	1550nm	Dual LC	EML	APD	SM
OP390AD	10Gb/s	SFP+	100KM	1550nm	Dual LC	EML	APD	SM
10G SFP+ with CDR								
OP3910S	10Gb/s	SFP+	10KM	1310nm	Dual LC	DFB	PIN	SM
OP3940S	10Gb/s	SFP+	40KM	1550nm	Dual LC	EML	PIN	SM
OP3980S	10Gb/s	SFP+	80KM	1550nm	Dual LC	EML	APD	SM
OP390AS	10Gb/s	SFP+	100KM	1550nm	Dual LC	EML	APD	SM

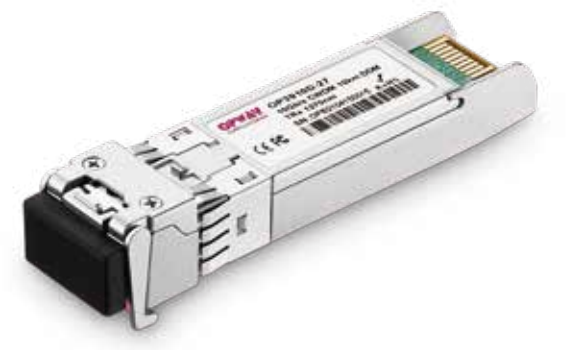
10G SFP+
SOLUTIONS

Application

SONET OC-192/SDH STM-64
10GBASE Ethernet

Features

- Hot-pluggable SFP+ package
- Compliant with SFP+ MSA
- Single +3.3V power supply
- Support multi protocol up to 11.3Gb/s
- 1270~1610nm CWDM, ITU DWDM select
- Maximum link up to 100km
- Dual LC connector
- Operating temperature range:0~70°C or -40~+85°C optional
- Built-in digital diagnostic functions
- RoHS compliant



10G CWDM&DWDM SFP+

Part Number	Data Rate	Package	Distance	Wavelength	Connector	Tx	Rx	Cable
OP3910D-XX	10Gb/s	SFP+	10KM	1270~1610nm	Dual LC	DFB	PIN	SM
OP3920D-XX	10Gb/s	SFP+	20KM	1270~1450nm	Dual LC	DFB	PIN	SM
OP3940D-XX	10Gb/s	SFP+	40KM	1270~1450nm	Dual LC	DFB	PIN	SM
OP3940D-XX	10Gb/s	SFP+	40KM	1470~1610nm	Dual LC	EML	PIN	SM
OP3960D-XX	10Gb/s	SFP+	60KM	1270~1450nm	Dual LC	DFB	APD	SM
OP3980D-XX	10Gb/s	SFP+	80KM	1470~1610nm	Dual LC	EML	APD	SM
OP3940D-DXX	10Gb/s	SFP+	40KM	DWDM ITU	Dual LC	EML	PIN	SM
OP3980D-DXX	10Gb/s	SFP+	80KM	DWDM ITU	Dual LC	EML	APD	SM
OP390AD-DXX	10Gb/s	SFP+	100KM	DWDM ITU	Dual LC	EML	APD	SM

10G SFP+
SOLUTIONS

Application

SONET OC-192/SDH STM-64
10GBASE Ethernet

10G Bi-Di SFP+

Features

- Hot-pluggable SFP+ package
- Compliant with SFP+ MSA
- Single +3.3V power supply
- Support multi protocol up to 11.3Gb/s
- Maximum link up to 80km
- Single LC connector
- Operating temperature range:0~70°Cor -40~+85°C optional
- Built-in digital diagnostic functions
- RoHS compliant

Part Number	Data Rate	Package	Distance	Wavelength	Connector	Tx	Rx	Cable
OP5910D-2733	10Gb/s	SFP+	10KM	TX1270/RX1330	Single LC	DFB	PIN	SM
OP5910D-3327	10Gb/s	SFP+	10KM	TX1330/RX1270	Single LC	DFB	PIN	SM
OP5920D-2733	10Gb/s	SFP+	20KM	TX1270/RX1330	Single LC	DFB	PIN	SM
OP5920D-3327	10Gb/s	SFP+	20KM	TX1330/RX1270	Single LC	DFB	PIN	SM
OP5940D-2733	10Gb/s	SFP+	40KM	TX1270/RX1330	Single LC	DFB	PIN	SM
OP5940D-3327	10Gb/s	SFP+	40KM	TX1330/RX1270	Single LC	DFB	PIN	SM
OP5960D-2733	10Gb/s	SFP+	60KM	TX1270/RX1330	Single LC	DFB	APD	SM
OP5960D-3327	10Gb/s	SFP+	60KM	TX1330/RX1270	Single LC	DFB	APD	SM
OP5980D-2733	10Gb/s	SFP+	70KM	TX1270/RX1330	Single LC	DFB	APD	SM
OP5980D-3327	10Gb/s	SFP+	70KM	TX1330/RX1270	Single LC	DFB	APD	SM
OP5980D-45	10Gb/s	SFP+	80KM	TX1490/RX1550	Single LC	EML	APD	SM
OP5980D-54	10Gb/s	SFP+	80KM	TX1550/RX1490	Single LC	EML	APD	SM

COMPACT SFP
SOLUTIONS

Application

Point to point FTTH application
Fiber channel

Features

- Same compact package with SFP, with Dual LC two channels
  Each channel can achieve Bi-Di transmission
- Compliant with SFF-8472
- Compliant with CSFP MSA Option2
- Single +3.3V power supply
- Operating temperature range:0~70°C or -40~+85°C optional
- Built-in digital diagnostic functions
- RoHS compliant

Compact SFP

Part Number	Data Rate	Package	Distance	Wavelength	Connector	Tx	Rx	Cable
OPS220D-35	155Mb/s	CSFP	20KM	TX1310/RX1550	Dual LC	FP	PIN	SM
OPS220D-53	155Mb/s	CSFP	20KM	TX1550/RX1310	Dual LC	FP	PIN	SM
OPS420D-35	1.25Gb/s	CSFP	20KM	TX1310/RX1550	Dual LC	FP	PIN	SM
OPS420D-53	1.25Gb/s	CSFP	20KM	TX1550/RX1310	Dual LC	DFB	PIN	SM
OPS420D-34	1.25Gb/s	CSFP	20KM	TX1310/RX1490	Dual LC	FP	PIN	SM
OPS420D-43	1.25Gb/s	CSFP	20KM	TX1490/RX1310	Dual LC	DFB	PIN	SM
OPS620D-35	2.5Gb/s	CSFP	20KM	TX1310/RX1550	Dual LC	DFB	PIN	SM
OPS620D-53	2.5Gb/s	CSFP	20KM	TX1550/RX1310	Dual LC	DFB	PIN	SM

2.5G SFP
SOLUTIONS

Application

SONET OC-48/SDH STM-16/2xFC
MAN/AN

2.5G SFP

Features

- Hot-pluggable SFP package
- Compliant with SFP MSA
- Single +3.3V power supply
- Maximum link up to 120km
- Operating temperature range:0~70°C or -40~+85°C optional
- Built-in digital diagnostic functions
- RoHS compliant

2.5G SFP
SOLUTIONS

Part Number	Data Rate	Package	Distance	Wavelength	Connector	Tx	Rx	Cable
OP3603D	2.5Gb/s	SFP	300M	850nm	Dual LC	VCSEL	PIN	MM
OP3602D	2.5Gb/s	SFP	2KM	1310nm	Dual LC	FP	PIN	SM
OP3620D	2.5Gb/s	SFP	20KM	1310nm	Dual LC	DFB	PIN	SM
OP3640D	2.5Gb/s	SFP	40KM	1550nm	Dual LC	DFB	PIN	SM
OP3680D	2.5Gb/s	SFP	80KM	1550nm	Dual LC	DFB	APD	SM
OP360CD	2.5Gb/s	SFP	120KM	1550nm	Dual LC	DFB	APD	SM
2.5G Bi-Di LC SFP								
OP5602D-35	2.5Gb/s	SFP	2KM	TX1310/RX1550	Single LC	FP	PIN	SM
OP5602D-53	2.5Gb/s	SFP	2KM	TX1550/RX1310	Single LC	DFB	PIN	SM
OP5620D-35	2.5Gb/s	SFP	20KM	TX1310/RX1550	Single LC	DFB	PIN	SM
OP5620D-53	2.5Gb/s	SFP	20KM	TX1550/RX1310	Single LC	DFB	PIN	SM
OP5640D-45	2.5Gb/s	SFP	40KM	TX1490/RX1550	Single LC	DFB	PIN	SM
OP5640D-54	2.5Gb/s	SFP	40KM	TX1550/RX1490	Single LC	DFB	PIN	SM
OP5680D-45	2.5Gb/s	SFP	80KM	TX1490/RX1550	Single LC	DFB	APD	SM
OP5680D-54	2.5Gb/s	SFP	80KM	TX1550/RX1490	Single LC	DFB	APD	SM
OP560CD-45	2.5Gb/s	SFP	120KM	TX1490/RX1550	Single LC	DFB	APD	SM
OP560CD-54	2.5Gb/s	SFP	120KM	TX1550/RX1490	Single LC	DFB	APD	SM
2.5G CWDM&DWDM SFP								
OP3640D-XX	2.5Gb/s	SFP	40KM	1270~1610nm	Dual LC	DFB	PIN	SM
OP3680D-XX	2.5Gb/s	SFP	80KM	1270~1610nm	Dual LC	DFB	APD	SM
OP360CD-XX	2.5Gb/s	SFP	120KM	1270~1610nm	Dual LC	DFB	APD	SM
OP3640D-DXX	2.5Gb/s	SFP	40KM	DWDM ITU	Dual LC	DFB	PIN	SM
OP3680D-DXX	2.5Gb/s	SFP	80KM	DWDM ITU	Dual LC	DFB	APD	SM
OP360CD-DXX	2.5Gb/s	SFP	120KM	DWDM ITU	Dual LC	DFB	APD	SM

1.25G SFP
SOLUTIONS

Application

1000Base Ethernet, MAN/AN

1.25G SFP

Features

- Hot-pluggable SFP package
- Compliant with SFP MSA
- Single +3.3V power supply
- Maximum link up to 120km
- Dual LC connector
- Operating temperature range:0~70°C or -40~+85°C optional
- Built-in digital diagnostic functions
- RoHS compliant

Part Number	Data Rate	Package	Distance	Wavelength	Connector	Tx	Rx	Cable
OP3405D	1.25Gb/s	SFP	500M	850nm	Dual LC	VCSEL	PIN	MM
OP3402D	1.25Gb/s	SFP	2KM	1310nm	Dual LC	FP	PIN	MM
OP3420D	1.25Gb/s	SFP	20KM	1310nm	Dual LC	FP	PIN	SM
OP3440D	1.25Gb/s	SFP	40KM	1310nm	Dual LC	DFB	PIN	SM
OP3440D-15	1.25Gb/s	SFP	40KM	1550nm	Dual LC	DFB	PIN	SM
OP3480D	1.25Gb/s	SFP	80KM	1550nm	Dual LC	DFB	PIN	SM
OP340CD	1.25Gb/s	SFP	120KM	1550nm	Dual LC	DFB	APD	SM
1.25G CWDM&DWDM SFP								
OP3440D-XX	1.25Gb/s	SFP	40KM	CWDM	Dual LC	DFB	PIN	SM
OP3480D-XX	1.25Gb/s	SFP	80KM	CWDM	Dual LC	DFB	PIN	SM
OP340CD-XX	1.25Gb/s	SFP	120KM	CWDM	Dual LC	DFB	APD	SM
OP3440D-DXX	1.25Gb/s	SFP	40KM	DWDM ITU	Dual LC	DFB	PIN	SM
OP3480D-DXX	1.25Gb/s	SFP	80KM	DWDM ITU	Dual LC	DFB	PIN	SM
OP340CD-DXX	1.25Gb/s	SFP	120KM	DWDM ITU	Dual LC	DFB	APD	SM

1.25G SFP
SOLUTIONS

Features

- Hot-pluggable SFP package
- Compliant with SPF MSA
- Single +3.3V power supply
- Maximum link up to 120km
- Single LC/SC connector
- Operating temperature range:0~70℃
- Built-in digital diagnostic functions
- RoHS compliant

1.25G Bi-Di SFP

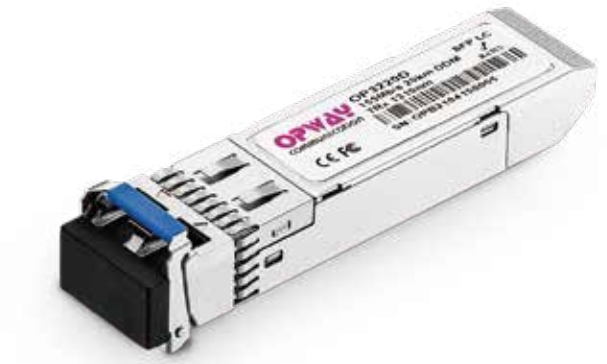
Part Number	Data Rate	Package	Distance	Wavelength	Connector	Tx	Rx	Cable
OP5405D-35	1.25Gb/s	SFP	500M	TX1310/RX1550	Single LC	FP	PIN	MM
OP5405D-53	1.25Gb/s	SFP	500M	TX1550/RX1310	Single LC	FP	PIN	MM
OP5403D-35	1.25Gb/s	SFP	3KM	TX1310/RX1550	Single LC	FP	PIN	SM
OP5403D-53	1.25Gb/s	SFP	3KM	TX1550/RX1310	Single LC	FP	PIN	SM
OP5420D-35	1.25Gb/s	SFP	20KM	TX1310/RX1550	Single LC	FP	PIN	SM
OP5420D-53	1.25Gb/s	SFP	20KM	TX1550/RX1310	Single LC	DFB	PIN	SM
OP5420D-34	1.25Gb/s	SFP	20KM	TX1310/RX1490	Single LC	FP	PIN	SM
OP5420D-43	1.25Gb/s	SFP	20KM	TX1490/RX1310	Single LC	DFB	PIN	SM
OP5440D-35	1.25Gb/s	SFP	40KM	TX1310/RX1550	Single LC	DFB	PIN	SM
OP5440D-53	1.25Gb/s	SFP	40KM	TX1550/RX1310	Single LC	DFB	PIN	SM
OP5480D-45	1.25Gb/s	SFP	80KM	TX1490/RX1550	Single LC	DFB	PIN	SM
OP5480D-54	1.25Gb/s	SFP	80KM	TX1550/RX1490	Single LC	DFB	PIN	SM
OP540CD-45	1.25Gb/s	SFP	120KM	TX1490/RX1550	Single LC	DFB	APD	SM
OP540CD-54	1.25Gb/s	SFP	120KM	TX1550/RX1490	Single LC	DFB	APD	SM
1.25G Bi-Di SC SFP								
OP4403D-35	1.25Gb/s	SFP	3KM	TX1310/RX1550	Single SC	FP	PIN	SM
OP4403D-53	1.25Gb/s	SFP	3KM	TX1550/RX1310	Single SC	FP	PIN	SM
OP4420D-35	1.25Gb/s	SFP	20KM	TX1310/RX1550	Single SC	FP	PIN	SM
OP4420D-53	1.25Gb/s	SFP	20KM	TX1550/RX1310	Single SC	DFB	PIN	SM

155M SFP
SOLUTIONS

Application

SONET OC-3/SDH-1

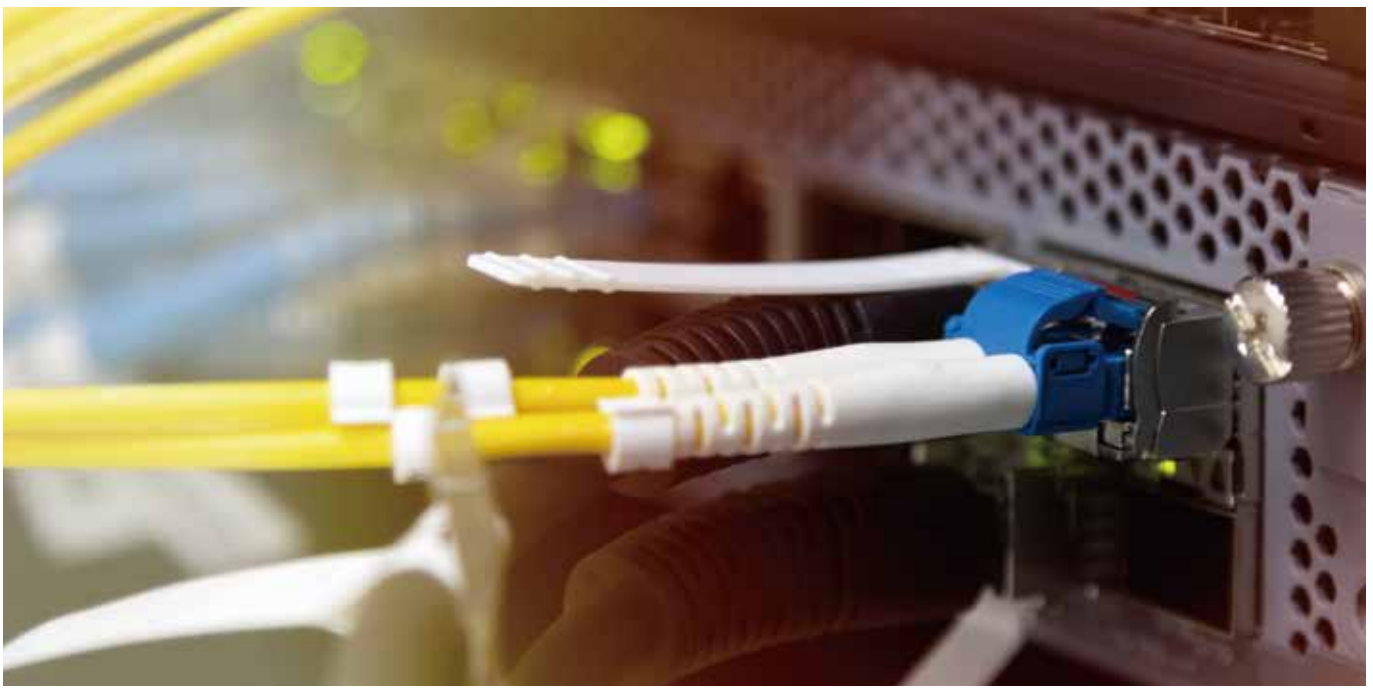
Fast Ethernet、MAN/AN



155M SFP

Features

- Hot-pluggable SFP package
- Compliant with SFP MSA
- Single +3.3V power supply
- Operating temperature range:0~70℃ or -40~+85℃ optional
- Built-in digital diagnostic functions
- RoHS compliant



155M SFP
SOLUTIONS

Part Number	Data Rate	Package	Distance	Wavelength	Connector	Tx	Rx	Cable
OPE202	FI:155Mb/s MI:1.25Gb/s	SFP	2KM	1310nm	Dual LC	FP	PIN	MM
OPE210	FI:155Mb/s MI:1.25Gb/s	SFP	10KM	1310nm	Dual LC	FP	PIN	SM
OP3202D-85	155Mb/s	SFP	2KM	850nm	Dual LC	VCSEL	PIN	MM
OP3202D	155Mb/s	SFP	2KM	1310nm	Dual LC	FP	PIN	MM
OP3220D	155Mb/s	SFP	20KM	1310nm	Dual LC	FP	PIN	SM
OP3240D	155Mb/s	SFP	40KM	1310nm	Dual LC	FP	PIN	SM
OP3280D	155Mb/s	SFP	80KM	1550nm	Dual LC	DFB	PIN	SM
155M Bi-Di LC SFP								
OP5202D-35	155Mb/s	SFP	2KM	TX1310/RX1550	Single LC	FP	PIN	MM
OP5202D-53	155Mb/s	SFP	2KM	TX1550/RX1310	Single LC	FP	PIN	MM
OP5220D-35	155Mb/s	SFP	20KM	TX1310/RX1550	Single LC	FP	PIN	SM
OP5220D-53	155Mb/s	SFP	20KM	TX1550/RX1310	Single LC	FP	PIN	SM
OP5240D-35	155Mb/s	SFP	40KM	TX1310/RX1550	Single LC	FP	PIN	SM
OP5240D-53	155Mb/s	SFP	40KM	TX1550/RX1310	Single LC	DFB	PIN	SM
OP5280D-45	155Mb/s	SFP	80KM	TX1490/RX1550	Single LC	DFB	PIN	SM
OP5280D-54	155Mb/s	SFP	80KM	TX1550/RX1490	Single LC	DFB	PIN	SM
155M Bi-Di SC SFP								
OP4220D-35	155Mb/s	SFP	20KM	TX1310/RX1550	Single SC	FP	PIN	SM
OP4220D-53	155Mb/s	SFP	20KM	TX1550/RX1310	Single SC	FP	PIN	SM
155M CWDM&DWDM SFP								
OP3280D-XX	155Mb/s	SFP	80KM	CWDM	Dual LC	DFB	PIN	SM
OP3280D-DXX	155Mb/s	SFP	80KM	DWDM ITU	Dual LC	DFB	PIN	SM

PON
SOLUTIONS

Application

FTTB/FTTC/FTTH

Features

- EPON/GPON/10G EPON/XGPON/XGSPON/Combo PON select
- OLT port hot-pluggable SFP or XFP package
- ONU port hot-pluggable SFP package
- Single fiber Bi-Di data link
- Single SC connector
- RoHS compliant

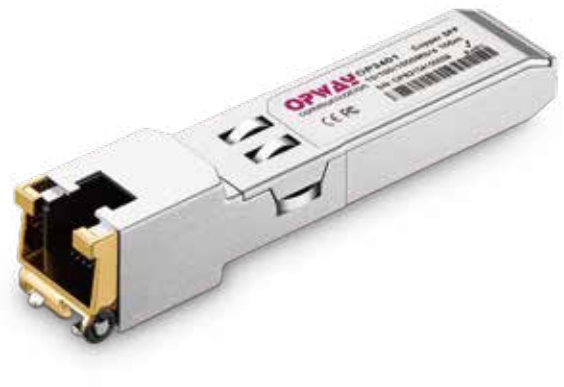
PON
SOLUTIONS

Part Number	Package	Data Rate	Class	Wavelength	Tx	Rx
EPON OLT/ONU Module						
OP44P1-ET	SFP	1.25GbpsT/1.25GbpsR	PX-20+	TX1490/RX1310	DFB	APD
OP44P2-ET	SFP	1.25GbpsT/1.25GbpsR	PX-20++	TX1490/RX1310	DFB	APD
OP44P3-ET	SFP	1.25GbpsT/1.25GbpsR	PX-20+++	TX1490/RX1310	DFB	APD
OP44P1-EU	SFP	1.25GbpsT/1.25GbpsR	PX-20+	TX1310/RX1490	FP	PIN
GPON OLT / ONU Module						
OP46B1-GT	SFP	2.5GbpsT/1.25GbpsR	B+	TX1490/RX1310	DFB	APD
OP46C1-GT	SFP	2.5GbpsT/1.25GbpsR	C+	TX1490/RX1310	DFB	APD
OP46C2-GT	SFP	2.5GbpsT/1.25GbpsR	C++	TX1490/RX1310	DFB	APD
OP44B1-GU	SFP	1.25GpbsT/2.5GbpsR	B+	TX1310/RX1490	DFB	APD
OP44B1-GU-SI	SFP	1.25GpbsT/2.5GbpsR	B+	TX1310/RX1490	DFB	APD
10G EPON OLT / ONU Module						
OP49R1-ET	SFP+	10GbpsT/10GbpsR	PR30	TX1577/RX1270	EML	APD
OP89R1-ET	XFP	10GbpsT/10GbpsR	PR30	TX1577/RX1270	EML	APD
OP49R1-EU	SFP+	10GbpsT/10GbpsR	PR30	TX1270/RX1577	DFB	APD
OP49R2-EU	SFP+	1.25GbpsT/10GbpsR	PRX30	TX1270/RX1577	DFB	APD
XGPON OLT / ONU Module						
OP49N1-GT	SFP+	10GbpsT/2.5GbpsR	N1	TX1577/RX1270	EML	APD
OP49N2-GT	SFP+	10GbpsT/2.5GbpsR	N2a	TX1577/RX1490	EML	APD
OP49N2-GU	SFP+	2.5GbpsT/10GbpsR	N1/N2a	TX1270/RX1577	DFB	APD
XGSPON OLT / ONU Module						
OP49N1-ST	SFP+	10GbpsT/10GbpsR	N1	TX1577/RX1270	EML	APD
OP49N2-ST	SFP+	10GbpsT/10GbpsR	N2	TX1577/RX1490	EML	APD
OP49N2-SU	SFP+	10GbpsT/10GbpsR	N1/N2	TX1270/RX1577	DFB	APD
XGPON Combo						
OP491B-GT	SFP+	XGPON 10GbpsT/2.5GbpsR	N1	TX1577/RX1270	EML	APD
		GPON 2.5GbpsT/1.25GbpsR	B+	TX1490/RX1310	DFB	APD
OP493C-GT	SFP+	XGPON 10GbpsT/2.5GbpsR	N2a	TX1577/RX1270	EML	APD
		GPON 2.5GbpsT/1.25GbpsR	C+	TX1490/RX1310	DFB	APD
XGSPON Combo						
OP491B-ST	SFP+	XGSPON 10GbpsT/10GbpsR	N1	TX1577/RX1270	EML	APD
		GPON 2.5GbpsT/1.25GbpsR	B+	TX1490/RX1310	DFB	APD
OP493C-ST	SFP+	XGSPON 10GbpsT/10GbpsR	N2	TX1577/RX1270	EML	APD
		GPON 2.5GbpsT/1.25GbpsR	C+	TX1490/RX1310	DFB	APD

COPPER SFP
SOLUTIONS

Application

Switch/router to switch/router link



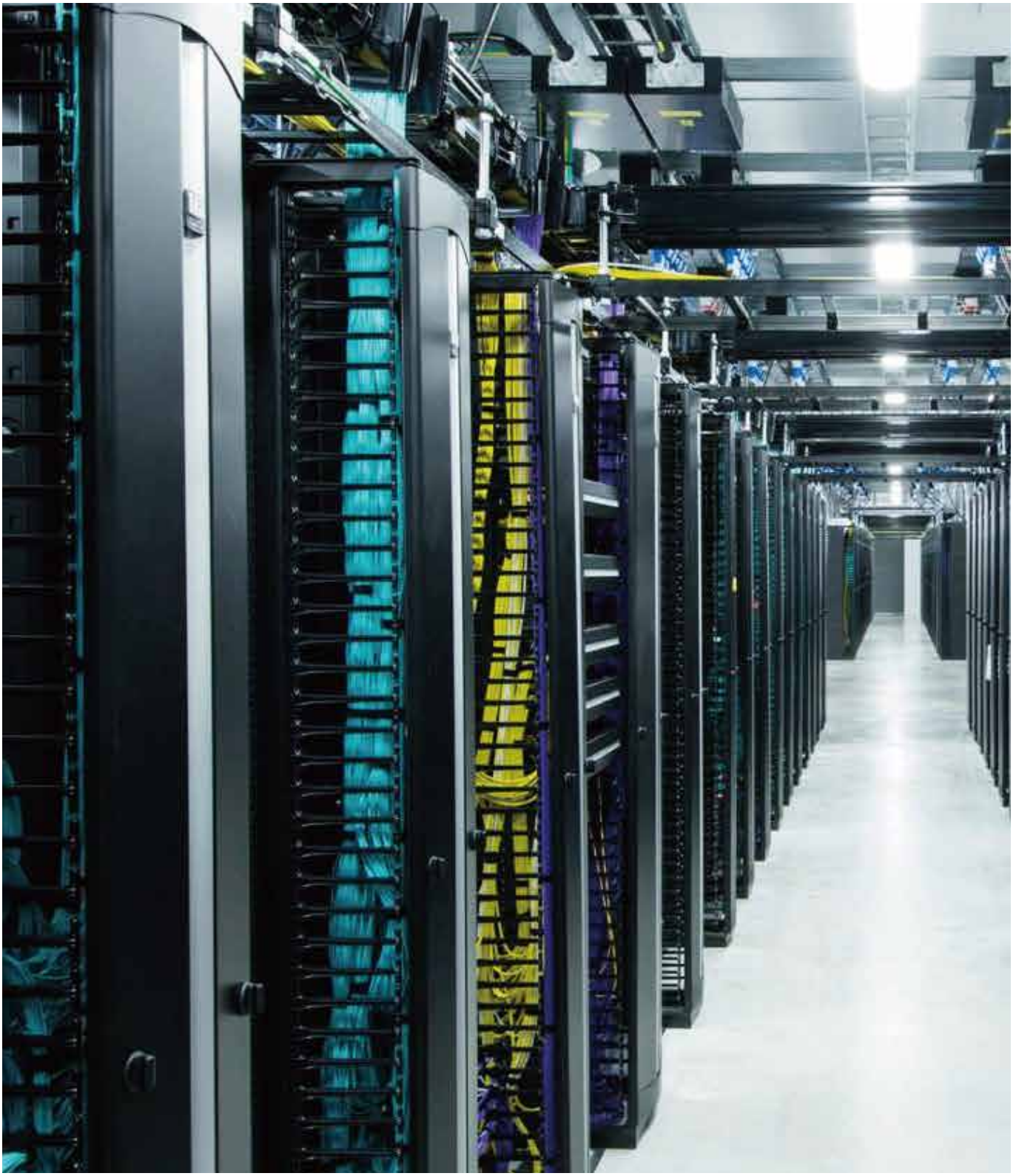
Copper SFP

Features

- Hot-pluggable SFP package
- Compliant with SFP MSA
- Compact RJ-45 connector assembly
- Fully metallic enclosure for low EMI
- Interface for management and diagnostic monitor
- Single +3.3V power supply
- Operating temperature range:0~70℃ or -40~+85℃ optional
- RoHS compliant

Part Number	Package	Distance	Data Rate	Connector	Tx_Disable	Rx_LOS
OP3401	SFP	100M	10/100/1000Mb/s	RJ45	YES	YES
OP3401-1	SFP	100M	10/100/1000Mb/s	RJ45	YES	NO
OP3401-2	SFP	100M	10/100/1000Mb/s	RJ45	NO	YES
OP3401-3	SFP	100M	10/100/1000Mb/s	RJ45	NO	NO
OP3401G	SFP	100M	纯1000Mb/s	RJ45	YES	YES
OP3401G-1	SFP	100M	纯1000Mb/s	RJ45	YES	NO
OP3401G-2	SFP	100M	纯1000Mb/s	RJ45	NO	YES
OP3401G-3	SFP	100M	纯1000Mb/s	RJ45	NO	NO
OP3901	SFP+	30M	10Gb/s	RJ45	YES	YES

AOC DAC
SOLUTIONS



AOC
SOLUTIONS

Application

Data center
HPC interconnection

Features

- Full-duplex active optical cable
- Hot pluggable form factor
- High reliable 850nm VCSEL technology
- Built-in digital diagnostic functions
- Single +3.3V power supply
- Low power consumption
- Operating temperature range:0~70°C
- RoHS 6 compliant

Part Number	Package	Data Rate	Distance	Tx	Rx	Cable
OPDJTx-AOC	QSFP-DD	400Gb/s	0.5~100M	VCSEL	PIN	MM
OPQHTx-AOC	QSFP56	200Gb/s	0.5~100M	VCSEL	PIN	MM
OPQHTx-2-AOC	QSFP56→2*QSFP56	200Gb/s	0.5~100M	VCSEL	PIN	MM
OPQETx-AOC	QSFP28	100Gb/s	0.5~100M	VCSEL	PIN	MM
OPQETx-4-AOC	QSFP28→4*SFP28	100Gb/s	0.5~100M	VCSEL	PIN	MM
OPQCTx-AOC	QSFP+	40Gb/s	0.5~150M	VCSEL	PIN	MM
OPQCTx-4-AOC	QSFP+→4*SFP+	40Gb/s	0.5~150M	VCSEL	PIN	MM
OP30Tx-AOC	SFP28	25Gb/s	0.5~100M	VCSEL	PIN	MM
OP39Tx-AOC	SFP+	10Gb/s	0.5~300M	VCSEL	PIN	MM

DAC
SOLUTIONS

Application

Data center
Enterprise network

Features

- Full-duplex direct attach cable
- Hot pluggable form factor
- Single +3.3V power supply
- Low crosstalk
- Low power consumption
- Operating temperature range: 0~70°C
- RoHS compliant

Part Number	Package	Data Rate	Distance	Tx	Rx	Cable
OPDJTx	QSFP-DD	400Gb/s	0.5~3M	/	/	Copper
OPDJTx-8	QSFP-DD→8*SFP56	400Gb/s	0.5~3M	/	/	Copper
OPDHTx	QSFP-DD	200Gb/s	0.5~3M	/	/	Copper
OPDHTx-2	QSFP-DD→2*QSFP28	200Gb/s	0.5~3M	/	/	Copper
OPQHTx	QSFP56	200Gb/s	0.5~3M	/	/	Copper
OPQHTx-2	QSFP56→2*QSFP56	200Gb/s	0.5~3M	/	/	Copper
OPQHTx-4	QSFP56→4*SFP56	200Gb/s	0.5~3M	/	/	Copper
OPQETx	QSFP28	100Gb/s	0.5~5M	/	/	Copper
OPQETx-4	QSFP28→4*SFP28	100Gb/s	0.5~5M	/	/	Copper
OPQCTx	QSFP+	40Gb/s	0.5~7M	/	/	Copper
OPQCTx-4	QSFP+→4*SFP+	40Gb/s	0.5~7M	/	/	Copper
OP30Tx	SFP28	25Gb/s	0.5~5M	/	/	Copper
OP39Tx	SFP+	10Gb/s	0.5~7M	/	/	Copper

50GHz ITU Grid DWDM Wavelength

Channel No.	Central Wavelength（nm）	Frequency（THz）	Channel No.	Central Wavelength（nm）	Frequency（THz）
21	1560.61	192.10	41	1544.53	194.10
21.5	1560.20	192.15	41.5	1544.13	194.15
22	1559.79	192.20	42	1543.73	194.20
22.5	1559.39	192.25	42.5	1543.33	194.25
23	1558.98	192.30	43	1542.94	194.30
23.5	1558.58	192.35	43.5	1542.54	194.35
24	1558.17	192.40	44	1542.14	194.40
24.5	1557.77	192.45	44.5	1541.75	194.45
25	1557.36	192.50	45	1541.35	194.50
25.5	1556.96	192.55	45.5	1540.95	194.55
26	1556.55	192.60	46	1540.56	194.60
26.5	1556.15	192.65	46.5	1540.16	194.65
27	1555.75	192.70	47	1539.77	194.70
27.5	1555.34	192.75	47.5	1539.37	194.75
28	1554.94	192.80	48	1538.98	194.80
28.5	1554.54	192.85	48.5	1538.58	194.85
29	1554.13	192.90	49	1538.19	194.90
29.5	1553.73	192.95	49.5	1537.79	194.95
30	1553.33	193.00	50	1537.40	195.00
30.5	1552.93	193.05	50.5	1537.00	195.05
31	1552.52	193.10	51	1536.61	195.10
31.5	1552.12	193.15	51.5	1536.22	195.15
32	1551.72	193.20	52	1535.82	195.20
32.5	1551.32	193.25	52.5	1535.43	195.25
33	1550.92	193.30	53	1535.04	195.30
33.5	1550.52	193.35	53.5	1534.64	195.35
34	1550.12	193.40	54	1534.25	195.40
34.5	1549.72	193.45	54.5	1533.86	195.45
35	1549.32	193.50	55	1533.47	195.50
35.5	1548.91	193.55	55.5	1533.07	195.55
36	1548.51	193.60	56	1532.68	195.60
36.5	1548.11	193.65	56.5	1532.29	195.65
37	1547.72	193.70	57	1531.90	195.70
37.5	1547.32	193.75	57.5	1531.51	195.75
38	1546.92	193.80	58	1531.12	195.80
38.5	1546.52	193.85	58.5	1530.72	195.85
39	1546.12	193.90	59	1530.33	195.90
39.5	1545.72	193.95	59.5	1529.94	195.95
40	1545.32	194.00	60	1529.55	196.00
40.5	1544.92	194.05	60.5	1529.16	196.05

100GHz ITU Grid DWDM Wavelength

Channel No.	Central Wavelength（nm）	Frequency（THz）	Channel No.	Central Wavelength（nm）	Frequency（THz）
17	1563.86	191.7	40	1545.32	194.0
18	1563.05	191.8	41	1544.53	194.1
19	1562.23	191.9	42	1543.73	194.2
20	1561.42	192.0	43	1542.94	194.3
21	1560.61	192.1	44	1542.14	194.4
22	1559.79	192.2	45	1541.35	194.5
23	1558.98	192.3	46	1540.56	194.6
24	1558.17	192.4	47	1539.77	194.7
25	1557.36	192.5	48	1538.98	194.8
26	1556.55	192.6	49	1538.19	194.9
27	1555.75	192.7	50	1537.40	195.0
28	1554.94	192.8	51	1536.61	195.1
29	1554.13	192.9	52	1535.82	195.2
30	1553.33	193.0	53	1535.04	195.3
31	1552.52	193.1	54	1534.25	195.4
32	1551.72	193.2	55	1533.47	195.5
33	1550.92	193.3	56	1532.68	195.6
34	1550.12	193.4	57	1531.90	195.7
35	1549.32	193.5	58	1531.12	195.8
36	1548.51	193.6	59	1530.33	195.9
37	1547.72	193.7	60	1529.55	196.0
38	1546.92	193.8	61	1528.77	196.1
39	1546.12	193.9			

CWDM Bail Color Remarks

Channel No.	Central Wavelength（nm）	Bail Color	Channel No.	Central Wavelength（nm）	Bail Color
27	1270	Light Purle	45	1450	Yellow Orange
29	1290	Sky Blue	47	1470	Gray
31	1310	Yellow Green	49	1490	Violet
33	1330	Yellow Ocher	51	1510	Blue
35	1350	Pink	53	1530	Green
37	1370	Beige	55	1550	Yellow
39	1390	White	57	1570	Orange
41	1410	Silver	59	1590	Red
43	1430	Black	61	1610	Brown

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