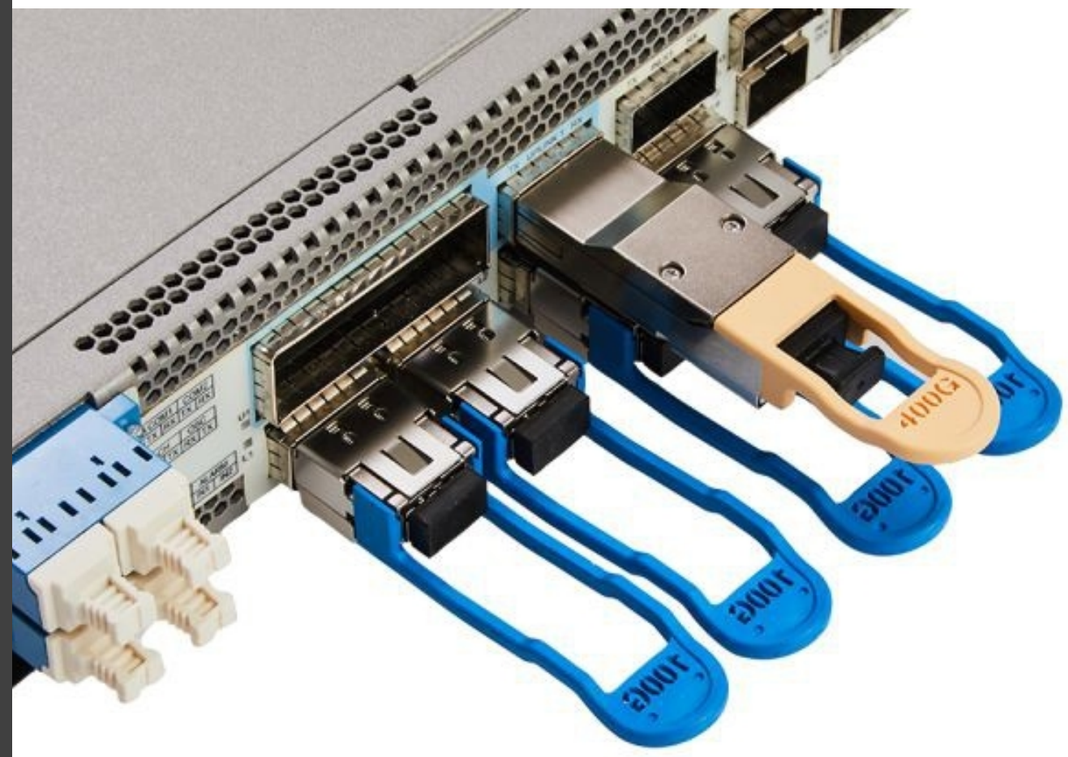


PRIMUSIT



CONTACT US

PRIMUSIT

Your one stop solution for optical transceivers

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◎This catalog only include partial of product items,
for more details please reach to sales@primus-it.com

CATALOGUE 2021

Thousands of satisfied customers can't be wrong

Clients in More than 30 Countries



★Hong Kong: headquarters

○ ShenZhen: office,R&D center

USA:branch , with operations offices in the U.S

Offices and warehouses are expected to be set up in Europe



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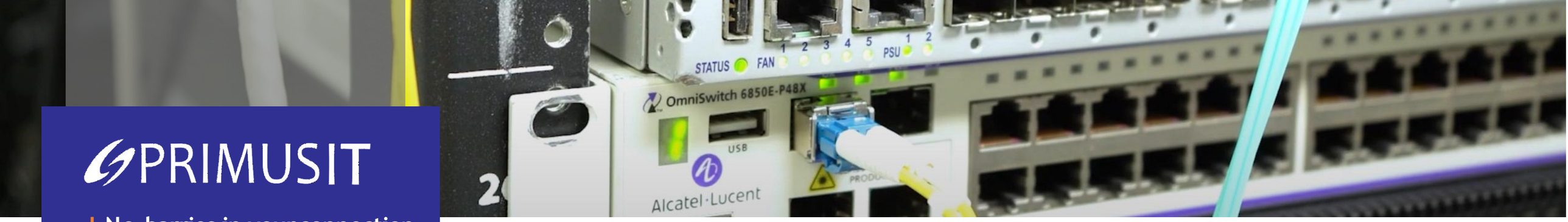
WHAT WE DO

Founded in 2015, PRIMUS IT is a leading global provider of high speed optical transceivers. We offer 100% compatibility with MSA standards, from traditional 100M transceivers to the latest 400G transceivers. We not only focus on developing high performance, low-cost optical modules, but also provide customers with customized solutions, business and technical support.

We have our own professional R&D team, advanced production equipment laboratory and strict quality control system to ensure product reliability and traceability.

Our data transfer system ensures that all transceivers undergo the same rigorous process during packaging and shipping.

PRIMUS IT has passed ISO9001, ISO14001, CE, FCC, REACH, IEC 60825 product certification, and all products are RoHS compliant.



PRIMUSIT

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PRODUCT GUIDE I

100G QSFP28

APPLICATIONS

- 100GBASE-ER4 100G Ethernet
- 100GE CWDM4/PSM4 applications
- OTU4 4L1-9D1F
- Datacenter and enterprise networking
- Data Center Interconnect
- 200G Ethernet
- 400G Ethernet
- Infiniband interconnects
- Enterprise networking



PART NUMBER	DATA RATE	REACH	TX RX	RX	CONNECTOR	TEMPERATURE
PQ21H-8501M	100G	100m	850nm	N/A	MPO	0-70°C
PQ21H-3110	100G	10km	1310nm	N/A	LC	0-70°C
PQ21H-3140	100G	40km	1310nm	N/A	LC	0-70°C
PQ21H-C3102	100G	2km	CWDM4	N/A	LC	0-70°C
PQ21H-P3102	100G	2km	PSM4	N/A	LC	0-70°C
PQ21H-3180	100G	80km	1310nm	N/A	LC	0-70°C

PART NUMBER	DATA RATE	REACH	FORM FACTOR	TX	TEMPERATURE	DISTANCE
PQD2H-3110	200G	10km	QSFP-DD	1310nm	0-70°C	LR4
PQD4H-3105M	400G	500m	QSFP-DD	1310nm	0-70°C	DR4
PQD4H-3110	400G	10km	QSFP-DD	1310nm	0-70°C	LR4
PQD4H-8501M	400G	100m	QSFP-DD	850nm	0-70°C	SR4
PQD4H-3102	400G	2km	QSFP-DD	1310nm	0-70°C	FR4
POS4H-3102	400G	2km	OSFP	1310nm	0-70°C	FR4
POS4H-3105M	400G	500m	OSFP	1310nm	0-70°C	DR4

GPON/EPON/XGPON

ACCESS NETWORK PRODUCTS

- Combo PON Transceiver
- 10G EPON Transceiver
- XG(S) PON Transceiver
- GPON Transceiver
- GEPON Transceiver

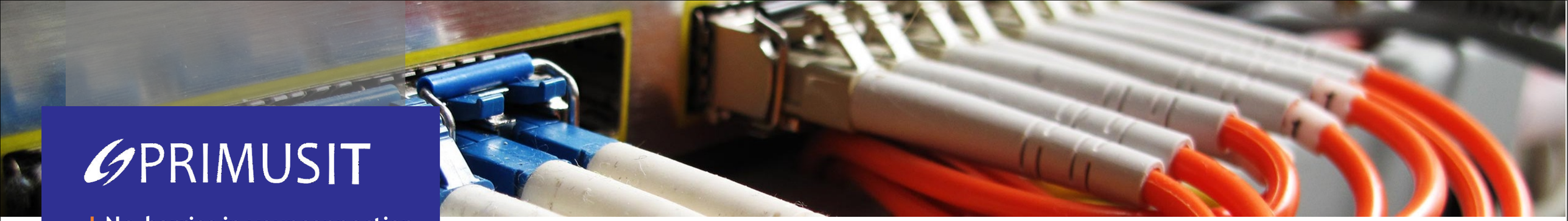


OSA PRODUCTS

- Combo PON Compoent
- P2P BOSA/TOSA/ROSA
- 10G EPOM/XGPOM ONU BOSA
- 10G EPON/XGPON OLT TRISA/BOSA
- GEPON.GPON OLT BOSA
- GEPON/GPON ONU TRISA/BOSA

(MOQ requirement :Only support bulk orders)

PART NUMBER	DATA RATE	REACH	TX	RX	CONNECTOR	TEMPERATURE
PGS12-B3420	1.25G	20km	1310nm	1490nm	SC/APC	0-70°C
PGS24-B4320	2.5G	20km	1490nm	1310nm	SC/UPC	0-70°C
PPES96-BC5423-20	10G	20Km	1577/1490	1270/1330	SC	0-70°C
PXS96-B2520	10G	N/A	1270nm	1557nm	SC	0-70°C



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PRODUCT GUIDE I

40G QSFP+

APPLICATIONS

- 40GBASE-LR4 Ethernet links
- Infiniband QDR and DDR interconnects Client-side
- Datacom/Telecom switch & router connections
- Data aggregation and backplane applications
- Proprietary protocol and density application



FEATURES

- Hot-pluggable QSFP+ form factor
- 4 independent full-duplez channels
- Up tp 11.2Gbps per channel bandwidth
- Aggregate bandwidth of>40Gbps
- QSFP MSA compliant
- VCSEL/DFB/EML transmitter
- Built-in digital diagnostic functions
- Duplex LC recepatacles/Single MPO-12 receplacle
- Single +3.3V power supply operating
- TX input and RX output CDR retiming
- Temperature range 0℃ ~70℃
- AOC up to 100m transmission distance
- RoHS-6 Compliant

PART NUMBER	DATA RATE	REACH	TX	RX	CONNECTOR	TEMPERATURE
PQS40-8501M	40G	100m	850nm	N/A	MPO	0-70℃
PQS40-B	40G	100m	832nm	918nm	LC	0-70℃
PQS40-312L	40G	2km	1310nm	N/A	LC	0-70℃
PQS40-3110	40G	10km	1310nm	N/A	LC	0-70℃
PQS40-3140	40G	40KM	1310nm	N/A	LC	-10-70℃

25G SFP28

APPLICATIONS

- CPRI Option 10
- OTU4
- 32G Fiber Channel
- Tri-Rate 8.5/14.025/28.05Gbps FC
- Other Optical Link



FEATURES

- Up to 28Gb/s bi-directional data links
- Hot-pluggable SFP+footprint
- Built-in digital diagnostic functions
- VCSEL/EML/DFB transmitter
- Compliant with single lane Ethernet applications
- Duplex LC connector
- Up to 40km on 9/125μm SMF,100m(150m)over M5F MMF (50/125μm Om4)
- 70m(100m)over M5E MMF(50/125μm Om3)
- Single +3.3V power supply operating
- TX input and RX output CDR retiming
- Temperature range 0 ℃~70℃
- AOC up to 100m transmission distance
- RoHS-6 Compliant

PART NUMBER	DATA RATE	REACH	TX	RX	CONNECTOR	TEMPERATURE
PSP28-8501M	25G	100m	850nm	N/A	LC	0-70℃
PSP28-3110	25G	10km	1310nm	N/A	LC	0-70℃
PSP28-CXX10	25G	10km	CWDM	N/A	LC	0-70℃
PSP28-DXX10	25G	10km	DWDM	N/A	LC	0-70℃
PSP28-LXX40	25G	40km	LWDM	N/A	LC	0-70℃
PSP28-B3710/B7310	25G	10Km	1330/1270nm	1330/1270nm	LC	0-70℃

10G/16G SFP+

FEATURES

- Duplex LC Connector
- I2C managementinterface
- Single 3.3V Power Supply
- Compliant with SFP+MSA
- Up to 14.025 Gb/s bi-directional data links
- Tri-Rate 4.25/8.5/14.025 Gb/s Fibre Channel through Rate select
- 4x Fibre Channel Compliant
- 8x Fibre Channel Compliant
- 16x Fibre Channel Compliant
- Compliant with SONET OC=192/SDH STM-64
- Operation Temperature range 0℃ ~70℃
- Low Power Dissipation
- RoHS-6 Compliant

APPLICATIONS

- 10GBASE-LR/SR/ER
- CWDM Networks
- 10G SONET
- Other optical links



PART NUMBER	DATA RATE	REACH	TX	RX	CONNECTOR	TEMPERATURE
PSP16-8503M	16G	100m	850nm	N/A	LC	0-70℃
PSP16-3110	16G	10km	1310nm	N/A	LC	0-70℃
PSP96-8503M	10G	300m	850nm	850nm	LC	-5-70℃
PSP96-3110	10G	10km	1310nm	1310nm	LC	-5-70℃
PSP96-3120	10G	20km	1310nm	1310nm	LC	-5-70℃
PSP96-3140	10G	40km	1310nm	1310nm	LC	-5-70℃
PSP96-5540	10G	40km	1550nm	N/A	LC	-5-70℃
PSP96-5580	10G	80km	1550nm	N/A	LC	-5-70℃
PSP96-551A	10G	100km	1550nm	N/A	LC	0-70℃
PSP96-B7310	10G	10km	1270nm	1330nm	LC	-5-70℃
PSP96-B3710	10G	10km	1330nm	1270nm	LC	-5-70℃
PSP96-B7320	10G	20km	1270nm	1330nm	LC	-5-70℃
PSP96-B3720	10G	20km	1330nm	1270nm	LC	-5-70℃
PSP96-B7340	10G	40km	1270nm	1330nm	LC	-5-70℃
PSP96-B3740	10G	40km	1330nm	1270nm	LC	-5-70℃
PSP96-B7360	10G	60km	1270nm	1330nm	LC	-5-70℃
PSP96-B3760	10G	60km	1330nm	1270nm	LC	-5-70℃
PSP96-B4580	10G	80km	1490nm	1550nm	LC	0-70℃
PSP96-B5480	10G	80Km	1550nm	1490nm	LC	0-70℃
PSP96-CXX10	10G	10km	1271-1611nm	N/A	LC	-5-70℃
PSP96-CXX20	10G	20km	1271-1611nm	N/A	LC	-5-70℃
PSP96-CXX40	10G	40km	1471-1611nm	N/A	LC	-5-70℃
PSP96-CXX80	10G	80Km	1471-1611nm	N/A	LC	-5-70℃
PSP96-DXX40	10G	40km	DWDM	N/A	LC	-5-70℃
PSP96-DXX80	10G	80Km	DWDM	N/A	LC	-5-70℃

10G XFP

FEATURES

- Support Muti Protocol from 9.9Gb/s to 11.3Gb/s
- Duplex LC or Single LC Connector
- 2-wire Interface for management and Diagnostic Monitor
- XFI Electrical Interface with AC Coupling
- Hot Pluggable 30 pin Connector
- Compliant with XFP MSA
- Compliant with IEEE 802.3ae 10GBASE
- Compliant with 10G FC
- Compliant with SONET oc-192/sdh stm-64
- Operation Temperature Range 0 ℃~70℃ or -40℃~ 85℃ Optional
- Low Power Disspation
- RoHS-6 Compliant

APPLICATIONS

- 10GBASE-ZR/ZW 10G Ethernet
- SONET OC-192 & SDH STM 64
- 80KM 10G Fibre Channel
- DWDM Networks
- 10GBASE-LR/LW 10G Ethernet
- 1200-SM-LL-L 10G Fibre Channel



PART NUMBER	DATA RATE	REACH	TX	RX	CONNECTOR	TEMPERATURE
PXP96-8503M	10G	300m	850nm	N/A	LC	-5-70℃
PXP96-3110	10G	10km	1310nm	N/A	LC	-5-70℃
PXP96-3120	10G	20km	1310nm	N/A	LC	0-70℃
PXP96-5540	10G	40km	1260nm~1355nm	1260nm~1600nm	LC	-5-70℃
PXP96-5580	10G	80km	1550nm	N/A	LC	0-70℃
PXP96-B7310	10G	10km	1260nm~1355nm	1260nm~1600nm	LC	-5-70℃
PXP96-B3710	10G	10km	1260nm~1355nm	1260nm~1600nm	LC	-5-70℃
PXP96-B7320	10G	20km	1270nm	1330nm	LC	0-70℃
PXP96-B3720	10G	20km	1330nm	1270nm	LC	0-70℃
PXP96-B7340	10G	40km	1270nm	1330nm	LC	0-70℃
PXP96-B3740	10G	40km	1330nm	1270nm	LC	0-70℃
PXP96-B7360	10G	60km	1270nm	1330nm	LC	0-70℃
PXP96-B3760	10G	60km	1330nm	1270nm	LC	0-70℃
PXP96-CXX10	10G	10km	1253.5nm~1666.5nm	1260nm~1600nm	LC	0-70℃
PXP96-CXX20	10G	20km	1253.5nm~1666.5nm	1260nm~1600nm	LC	0-70℃
PXP96-CXX40	10G	40km	1253.5nm~1626.5nm	1260nm~1620nm	LC	0-70℃
PXP96-CXX80	10G	80km	1253.5nm~1666.5nm	1260nm~1660nm	LC	0-70℃
PXP96-DXX40	10G	40km	1259.9nm~1620.1nm	1260nm~1620nm	LC	0-70℃
PXP96-DXX80	10G	80km	1259.9nm~1620.1nm	1260nm~1620nm	LC	0-70℃

2.5G SFP

FEATURES

- Hot-pluggable SFP Footprint
- 2.5G Data Rate
- Duplex/Bi-di/CWDM/DWDM available
- Wide Distance Supported from 500m to 120km
- Built-in Digital Diagnostic Functions
- Metal Enclosure for Lower EMI
- Comply with DH/SONET
- Comply with IEEE Std 802.3
- Operation Temperature Range 0 ℃~70 ℃or -40℃ ~85℃ Optional
- Single +3.3V Power Supply
- RoHS-6 Compliant

APPLICATIONS

- Switch to Switch interface
- Switched backplane applications
- Router/Server interface
- Other optical transmission systems



PART NUMBER	DATA RATE	REACH	TX	RX	CONNECTOR	TEMPERATURE
PSP24-312L	2.5G	2km	1310nm	N/A	LC	-5-70℃
PSP24-3110	2.5G	10km	1310nm	N/A	LC	-5-70℃
PSP24-3120	2.5G	20km	1310nm	N/A	LC	-5-70℃
PSP24-3140	2.5G	40km	1310nm	N/A	LC	-5-70℃
PSP24-5540	2.5G	40km	1550nm	N/A	LC	-5-70℃
PSP24-5580	2.5G	80km	1550nm	N/A	LC	-5-70℃
PSP24-B3520	2.5G	20km	1310nm	1550nm	LC	-5-70℃
PSP24-B5320	2.5G	20km	1550nm	1310nm	LC	-5-70℃
PSP24-B3540	2.5G	40km	1310nm	1550nm	LC	-5-70℃
PSP24-B5340	2.5G	40km	1550nm	1310nm	LC	-5-70℃
PSP24-B4540	2.5G	40km	1490nm	1550nm	LC	-5-70℃
PSP24-B5440	2.5G	40km	1550nm	1490nm	LC	-5-70℃
PSP24-B4580	2.5G	80km	1490nm	1550nm	LC	-5-70℃
PSP24-B5480	2.5G	80Km	1550nm	1490nm	LC	-5-70℃
PSP24-B451B	2.5G	120km	N/A	N/A	LC	-40-85℃
PSP24-B541B	2.5G	120km	N/A	N/A	LC	-40-85℃
PSP24-CXX20	2.5G	20km	1271-1611nm	N/A	LC	-5-70℃
PSP24-CXX40	2.5G	40km	1271-1611nm	N/A	LC	-5-70℃
PSP24-CXX80	2.5G	80Km	1271-1611nm	N/A	LC	-5-70℃
PSP24-DXX20	2.5G	20km	1528.77nm~1563.86nm	N/A	LC	-40-85℃
PSP24-DXX40	2.5G	40km	1528.77nm~1563.86nm	N/A	LC	-40-85℃
PSP24-DXX80	2.5G	80Km	1528.77nm~1563.86nm	N/A	LC	-40-85℃

1.25G SFP

FEATURES

- Hot-pluggable SFP Footprint
- 1.25G Data Rate
- Duplex/Bidi/CWDM/DWDM available
- Wide Distance Supported from 500m to 120km
- Built-in Digital Diagnostic Functions
- Metal Enclosure for Lower EMI
- Comply with SFP MSA
- Comply with SDH/SONET
- Comply with IEEE Std 802.3
- Operation Temperature Range 0 ℃~ 70℃ or -45℃ ~85℃ Optional
- Single +3.3V Power Supply
- RoHS-6 Compliant

APPLICATIONS

- Switch to Switch interface
- Switched backplane applications
- Router/Server interface
- Other optical transmission systems



PART NUMBER	DATA RATE	REACH	TX	RX	CONNECTOR	TEMPERATURE
PSP12-8505M	1.25G	550m	850nm	N/A	LC	-5-70℃
PSP12-3120	1.25G	20km	1310nm	N/A	LC	-5-70℃
PSP12-3140	1.25G	40km	1310nm	N/A	LC	-5-70℃
PSP12-5540	1.25G	40km	1550nm	N/A	LC	-40-85℃
PSP12-5580	1.25G	80km	1550nm	N/A	LC	-5-70℃
PSP12-551B	1.25G	120km	1550nm	N/A	LC	-5-70℃
PSP12-B3420	1.25G	20km	1310nm	1490nm	LC	-5-70℃
PSP12-B4320	1.25G	20km	1490nm	1310nm	LC	-5-70℃
PSP12-B3520	1.25G	20km	1310nm	1550nm	LC	-5-70℃
PSP12-B5320	1.25G	20km	1550nm	1310nm	LC	-5-70℃
PSP12-B3440	1.25G	40km	1310nm	1490nm	LC	-5-70℃
PSP12-B4340	1.25G	40km	1490nm	1310nm	LC	-5-70℃
PSP12-B3540	1.25G	40km	1310nm	1550nm	LC	-5-70℃
PSP12-B5340	1.25G	40Km	1550nm	1310nm	LC	-5-70℃
PSP12-B4540	1.25G	40km	1490nm	1550nm	LC	-40-85℃
PSP12-B5440	1.25G	40km	1550nm	1490nm	LC	-40-85℃
PSP12-B4580	1.25G	80Km	1490nm	1550nm	LC	-5-70℃
PSP12-B5480	1.25G	80Km	1550nm	1490nm	LC	-5-70℃
PSP12-B451B	1.25G	120km	1490nm	1550nm	LC	-5-70℃
PSP12-B541B	1.25G	120km	1550nm	1490nm	LC	-5-70℃
PSP12-CXX10	1.25G	10km	1271nm~1661nm	N/A	LC	-5-70℃
PSP12-CXX40	1.25G	40km	1271nm~1661nm	N/A	LC	-5-70℃
PSP12-CXX80	1.25G	80Km	1271nm~1661nm	N/A	LC	-5-70℃
PSP12-CXX1B	1.25G	120km	1471nm~1661nm	N/A	LC	-5-70℃



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PRODUCT GUIDE I

DAC



APPLICATIONS

- 1-8G Fiber Channel and 1-10G Gigabit Ethernet
- Hub, Switches, Routers, Servers, Network Interface Card(NICs)
- Data center cabling infrastructure
- Networking, Storage, Telecommunications

FEATURES

- Compliant with MSA SFF-8431 / SFF-8432
- Compliant with IEEE 802.3ae
- Optimized NEXT & Return Loss
- Low interference
- Low power consumption
- Enhanced EMI / EMC performance
- Supports serial ID functionality through EEPROM
- Passive cable assembly supports distances up to 10 meters
- 30AWG to 24AWG cable sizes available
- RoHS compliant and Halogen-Free option available

PART NUMBER	DATA RATE	REACH	TX	RX	CONNECTOR	TEMPERATURE
PQ21H-DA85XXM	100G	1-7m	N/A	N/A	DAC	-40-85℃
PQ21H-DA85XXM-4	100G-25G	1-7m	N/A	N/A	DAC-4SR	-40-85℃
PQS40-DA85XXM	40G	1-7m	N/A	N/A	DAC	-40-85℃
PQS40-DA85XXM-4	40G-10G	1-7m	N/A	N/A	DAC-4SR	-40-85℃
PSP28-DA85XXM	25G	1-7m	N/A	N/A	DAC	0-70℃
PSP96-DA85XXM	10G	1-7m	N/A	N/A	DAC	0-70℃
☆ PQD2H-DAx101M~PQD4H-DAx102M	Multi types of 200G~ 400G QSFPDD DAC					

AOC



APPLICATIONS

- InfiniBand QDR (4 x 10G), DDR (4 x 5G) and SDR (4 x2.5G) interconne
- High Performance and High Productivity computer interconnects
- Data Aggregation, Backplane and Proprietary Density Applications
- PCI-Express, SAS/SATA, Fibre Channel compatible interconnect
- Datacom and Telecom switch and router backplane connections

FEATURES

- Compliant to the IEEE 802.3ba(40GBASE-SR4)
- 40Gbps aggregated bidirectional data throughput
- Compliant to the QSFP+ MSA SFF-8436 Specification
- Active Optical Cables Length up to 100m
- VCSEL array transmitter and PIN array receiver
- Low Power dissipation <0.35W per channel
- Infiniband 4XQDR/40G Base-SR10 Compliant Laser Class 1
- Operating case temperature: 0℃~ +70℃

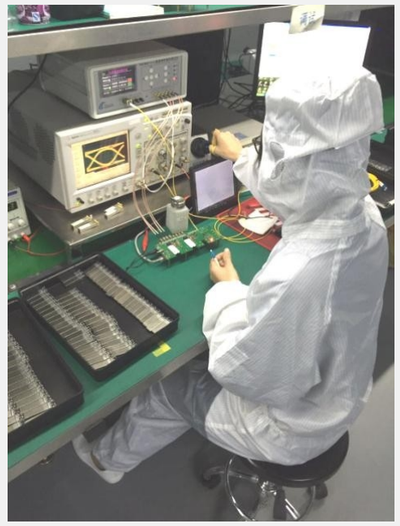
PART NUMBER	DATA RATE	REACH	TX	RX	CONNECTOR	TEMPERATURE
PQ21H-AO85XXM	100G	1-70m	850nm	N/A	AOC	0-70℃
PQ21H-AO85XXM-4	100G-25G	1-70m	850nm	N/A	AOC-4SR	0-70℃
PQS40-AO85XXM	40G	1-70m	850nm	N/A	AOC	0-70℃
PQS40-AO85XXM-4	40G-10G	1-70m	850nm	N/A	AOC-4SR	0-70℃
PSP28-AO85XXM	25G	1-70m	850nm	N/A	AOC	0-70℃
PSP96-AO85XXM	10G	1-70m	850nm	N/A	AOC	0-70℃

For us,there are no
too small or too big projects

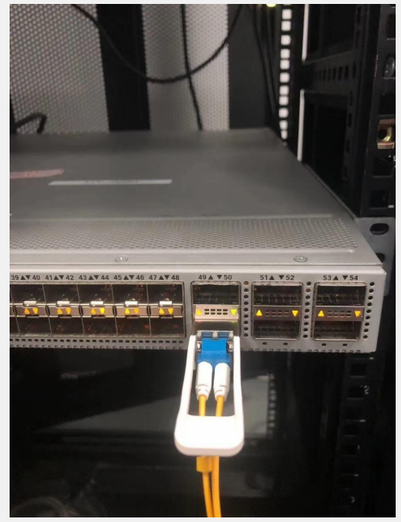
“ PRIMUSIT has extensive experience and leading technology in fiber optic communications, and we are passionate about providing customized solutions regardless of company size. We always pay attention to the dynamics of the industry's frontiers, starting from the details and controlling the overall situation. Our team has a vibrant blood. Members are diligent in thinking and willing to challenge.

Alex Yao

Alex Yao
Chief Excutive Officer







17,520
Hours of Work

1,796
Successful Projects

24/7
Online Service

1year
Replacement Warranty
Lifetime Repairment

1-5
Working days delivery
Same day shipping

Our clients say ”

Nice to deal with Primus IT,always professional and smooth transaction!

...

IEC60825-1



IEC60825-2



ISO9001:2005



FC certificate



CE certificate



RoHS



Registration certification

