



Empowering Connectivity Fostering Innovation, Growth and Collaboration

- CloudPhotonix is a High-Speed Optical Transceiver Design and Manufacturing Company based in Noida founded by team of industry leaders with combined 200+ yrs of deep domain experience globally.
- World class automated manufacturing in class 100k clean room.
- Wide range of Products for Datacenter, Telecom, Enterprise, ISP, MSO and Wireless.
- High quality and reliable transceivers tested to global standards at competitive price.
- Partnership with top industry leader on Guaranteed Compatibility with all Switches/Routers.
- Technical Support and Network Engineering backed by local R&D.
- R&D with deep domain experience and capabilities in transmission, module design and test .

FEATURES

- Fully Compatible with Cisco, Arista, Huawei, Juniper, HPE, Nokia, Aruba and others.
- Rate : 400G, 100G, 40G, 25G, 10G, 1G
- Range: 80km (ZR), 60km, 40km(ER), 20km, 10km(LR), 2km(FR), 500m (DR), 100m(SR), 50m, 1m and others
- Communication Mode: Duplex, BiDi
- Media: Fiber, Copper
- Fiber: MMF, SMF
- Form Factor: QSFP28, QSFP+, SFP28, SFP+, SFP
- Operating Temperature: Commercial (0°C to +70°C); Industrial (- 40°C to +85°C)
- Safety/Regulatory Compliance: RoHS Compliance

VALUE PROPOSITION

- Make in India to World Class Quality "Best in Class" standards with local certification
- Customized/flexible client centric solutions
- Deep technical support & Solutions driven
- Reliability Qualification and Certifications
- Reduced time to market and improved user experience
- Reduced supply chain risk

Our Portfolio

100G



Parameter	100G SR4	100G FR1	100G CWDM4	100G LR1	100G LR4	100G LR4 Dual Rate
Form Factor	QSFP28	QSFP28	CWDM QSFP28	QSFP28	QSFP28	QSFP28
Transmission Media	MMF (1x MPO-12 UPC)	SMF (2xLC)	SMF (2xLC)	SMF (2xLC)	SMF (2xLC)	SMF (2xLC)
Typical Reach	100m (@OM4)	2km	2km	10km	10km	10km
Nominal Wavelength	850 nm	1311 nm	Lane1: 1271 nm Lane2: 1291 nm Lane3: 1311 nm Lane4: 1331 nm	1311 nm	Lane1: 1295.56 nm Lane2: 1300.05 nm Lane3: 1304.58 nm Lane4: 1309.14 nm	Lane1: 1295.56 nm Lane2: 1300.05 nm Lane3: 1304.58 nm Lane4: 1309.14 nm
Bit Rate Support	103.12 Gbps 4x 24.33/25.78 Gbps/lane	106.25 Gbps 53.125 GBd (PAM-4)	103.12 Gbps 4x 24.33/25.78 Gbps/lane	106.25 Gbps 53.125 GBd (PAM-4)	103.12 Gbps 4x24.33/25.78 Gbps/lane	103.12 Gbps 4x24.33/25.78 Gbps/lane
Transmitter Average Power	-8.4~2.4dBm/lane	-3.1~4dBm/lane	-6.5~2.5dBm /lane	-1.9~4.8dBm	-4.3~4.5dBm /lane	-4.3~4.5dBm /lane
Receiver Sensitivity (Avg. Power)	-10.3dBm/lane	-7.1dBm	-11.5dBm/lane	-8.2dBm	-10.6dBm/lane	-10.6dBm/lane (100GbE) & -8.4dBm/lane (OTU4)
Interface Standards	100GBASE-SR4	100GBASE-FR	100GBASE-CWDM4	100GBASE-LR	100GBASE-LR4	100GBASE-LR4 & OTU4 411-9D1F
Protocol Support	100GbE	100GbE	100GbE	100GbE	100GbE	100GbE, OTU4
MSA Compliance	QSFP28 MSA SFF- 8636	QSFP28 MSA SFF-8636	QSFP28 MSA CWDM4 MSA	QSFP28 MSA SFF-8636	QSFP28 MSA SFF-8636	QSFP28 MSA SFF-8636

Parameter	100G ER1	100G ER4L	100G ZR4	100G BiDi 40km*	100G BiDi 80km
Form Factor	QSFP28	QSFP28	QSFP28	BiDi QSFP28	BiDi QSFP28
Transmission Media	SMF (2xLC)	SMF (2xLC)	SMF (2xLC)	SMF (2xLC)	SMF (1xLC)
Typical Reach	40km	40km	80km	40km	80km
Nominal Wavelength	1311nm	Lane1: 1295.56 nm Lane2: 1300.05 nm Lane3: 1304.58 nm Lane4: 1309.14 nm	Lane1: 1295.56 nm Lane2: 1300.05 nm Lane3: 1304.58 nm Lane4: 1309.14 nm	Tx: 1304.58/ Rx: 1309.14 nm Tx: 1309.14/ Rx: 1303.58 nm	Lane1: Tx: 1273.55/ Rx: 1295.56 nm Lane2: Tx: 1277.89/ Rx: 1300.05 nm Lane3: Tx: 1282.26/ Rx: 1304.58 nm Lane4: Tx: 1286.66/ Rx: 1309.14 nm
Bit Rate Support	106.25 Gbps 53.125GBd (PAM-4)	103.12 Gbps 4x24.33/25.78 Gbps/lane	103.12 Gbps 4x24.33/25.78 Gbps/lane	106.25 Gbps 53.125 GBd (PAM-4)	103.12 Gbps 4x 24.33/25.78 Gbps/lane
Transmitter Average Power	1.7~7.1dBm	-2.5~6.5dBm /lane	1.5~7dBm	1.7~7.1dBm /lane	2~6dBm /lane
Receiver Sensitivity (Avg. Power)	-16dBm	-20.5dBm/lane	-28dBm/lane	-16dBm	-26dBm/lane
Interface Standards	100G-ER1 MSA	100G 4WDM-40 MSA	100GBASE-ZR4	100G ER1-40	100GBASE-ZR4
Protocol Support	100GbE	100GbE	100GbE	100GbE	100GbE, InfiniBand DDR and QDR
MSA Compliance	QDFP28 MSA SFF-8636	QSFP28 MSA 100G 4WDM-40	QSFP28 MSA SFF-8636	QSFP28 MSA SFF-8636	QSFP28 MSA SFF-8636

*100G BiDi available reach - 10, 20, 30, 40, 50, 60 km



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Our Portfolio

40G - 25G



Parameter	40G SR4	40G LR4	25G SR	25G LR	25G BiDi	25G ER	25G BiDi
Form Factor	QSFP+	QSFP+	SFP28	SFP28	BiDi SFP28	SFP28	BiDi SFP28
Transmission Media	MMF (1x MPO-12 UPC)	SMF (2xLC)	MMF (2xLC)	SMF (2xLC)	SMF (1xLC)	SMF (2xLC)	SMF (1xLC)
Typical Reach	150m (@OM4)	10km	300m (@OM4)	10km	10km	40km	40km
Nominal Wavelength	Lane1: 850 nm Lane2: 850 nm Lane3: 850 nm Lane4: 850 nm	Lane1: 1271 nm Lane2: 1291 nm Lane3: 1311 nm Lane4: 1331 nm	850 nm	1310 nm	Tx: 1270/Rx: 1330 nm Tx: 1330/Rx: 1270 nm	1310 nm	Tx: 1270/ Rx:1310 nm Tx: 1310/Rx: 1270 nm
Bit Rate Support	41.25 Gbps 4x 9.95/10.31 Gbps/lane	41.25 Gbps 4x 9.95/10.31 Gbps/lane	9.95/10.31 Gbps 24.33/25.78 Gbps	9.95/10.31 Gbps 24.33/25.78 Gbps	9.95/10.31 Gbps 24.33/25.78 Gbps	24.33/25.78 Gbps	24.33/25.78 Gbps
Transmitter Average Power	-7.6~-2.4dBm	-7~2.3dBm	-8.4~2.4dBm	-7~2dBm	0~6dBm	-4~2dBm	0~6dBm
Receiver Sensitivity (Avg. Power)	-9.5dBm/lane	-13.7dBm/lane	-11.9dBm	-13.3dBm	-13.3dBm	-19dBm	-17.5dBm
Interface Standards	40GBASE-SR4	40GBASE-LR4	25GBASE-SR	25GBASE -LR	25GBASE-BR10	25GBASE-ER	25GBASE-BR40
Protocol Support	40GbE / 4x 10GbE-LAN	40GbE / 4x 10GbE-LAN	25GbE, 10GbE, CPRI	25GbE, 10GbE, CPRI	25GbE, CPRI	25GbE	25GbE, CPRI
MSA Compliance	QSFP+ MSA SFF-8636	QSFP+ MSA SFF-8636	SFP28 MSA SFF-8472	SFP28 MSA SFF-8472	SFP28 MSA SFF-8472	SFP28 MSA SFF-8472	SFP28 MSA SFF-8472

10G - 1G



Parameter	10G SR	10G LR	10G ER	10G ZR	1G Copper	1G SX	1G LX
Form Factor	SFP+	SFP+	SFP+	SFP+	SFP	SFP	SFP
Transmission Media	MMF (2xLC)	SMF (2xLC)	SMF (2xLC)	SMF (2xLC)	Cat5e/6 Cable (1xRJ45)	MMF (2xLC)	SMF (2xLC)
Typical Reach	300m (@OM3)	10km	40km	80km	100m	550m (@OM4)	10km
Nominal Wavelength	850 nm	1310 nm	1550 nm	1550 nm	NA	850 nm	1310 nm
Bit Rate Support	10.7Gbps 9.95/11.3 Gbps	10.7Gbps 9.95/11.3 Gbps	10.7Gbps 9.95/11.3 Gbps	10.7Gbps 9.95/11.3 Gbps	1000 Mbps	1.25 Gbps	1.25 Gbps
Transmitter Average Power	-6.5~-0.5dBm	-6.5~-0.5dBm	-1~2dBm	0~4dBm	NA	-9~0 dBm	-9~0 dBm
Receiver Sensitivity (Avg. Power)	-10.5dBm	-14.4dBm	-15.5dBm	-24dBm	NA	-18dBm	-23dBm
Interface Standards	10GBASE-SR/SW	10GBASE -LR/LW	10GBASE-ER/EW	10GBASE-ZR/ZW	1000BASE-T	1000BASE-SX	1000BASE-LX
Protocol Support	10GbE, STM-64	10GbE, STM-64	10GbE, STM-64	10GbE, STM-64	GbE (10/100/1000 Mbps)	GbE, 1G FC	GbE, 1G FC
MSA Compliance	SFP+ MSA SFF-8472	SFP+ MSA SFF-8472	SFP+ MSA SFF-8472	SFP+ MSA SFF-8472	SFP MSA SFF-8472	SFP MSA SFF-8472	SFP MSA SFF-8472



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Manufacturing and Research & Development Facility



- High Speed T&M
- Transceiver Characterization
- Component T&M
- Time Domain
 - BERT / Sensitivity
 - Eye
- Frequency Domain
 - ESA, OSA , s-params.
- Jitter/Stress Rx Test
- Link Budget and Testing
- OSNR loading
- Impairment Penalties
 - CD, PMD, PDL
- Environment Testing
- Switch/ Router Compatibility Test

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