

# Optical Transceivers and Cages

## Fibre Channel

- Storage networks
- SANs
- Hubs, switches, routers
- Enterprise servers and data centers
- Video conferencing
- Host Bus Adapters (HBAs)

## Ethernet/SONET

- Backbone networks/LANs
- Network Interface Cards (NICs)
- Internet and e-mail
- Desktop computing
- Video switches
- Data switches
- Routers, hubs, repeaters
- Network Attached Storage (NAS)

## Optical Transceivers — Ethernet and Fibre Channel

Product Code	Data Rate (Gb/s)	Wavelength (nm)	Pin Array	Distance (m)	Latch Handle Type	Temp. Range (°C)	Fibre Ch.	GbE <sup>2</sup>	10 GbE <sup>2</sup>	DDM Plus	RoHS Compliance	Rate Select
<b>SFP</b>												
PLRXPL-VI-S24-22	1 2	850	2x10	860' 500'	Bail	-40 to 85 -20 to 85	X	X		Yes	6/6	NA
JSH-12L1DD1	1	1310	2x10	10,000	Bail	-40 to 85	X	X		Yes	6/6	No
SFP-G11LKTD3DCA	1	1310	2x10	40,000	Bail	-40 to 85	X	X		Yes	6/6	No
SFP-GS2LKTD5DCA	1	1550	2x10	40,000	Bail	-40 to 85	X	X		Yes	6/6	No
SFP-G12LKTD5DCA	1	1550	2x10	80,000	Bail	-40 to 85	X	X		Yes	6/6	No
PLRXPL-VE-SG4-38	1, 2, 4	850	2x10	270'	Bail	-20 to 85	X	X		Yes	6/6	Yes
PLRXPL-VE-SG4-62	1, 2, 4	850	2x10	270'	Bail	-20 to 85	X	C		Yes	6/6	Yes
PLRXPL-VE-SG4-62-N	1, 2, 4	850	2x10	270'	Bail	-20 to 85	X	C		Yes	6/6	No
SFP-GL1LKTD3DCA	1	1310	2x10	60,000	Bail	-40 to 85	X	X		Yes	6/6	No
SFP-GL2LKTD5DCA	1	1550	2x10	120,000	Bail	-40 to 85	X	X		Yes	6/6	No
SFP-GS2LCCxxDCA <sup>1</sup>	1	1271-1611	2x10	40,000	Bail	-5 to 70	X	X		Yes	6/6	No
SFP-G12LCCxxDCA <sup>1</sup>	1	1271-1611	2x10	80,000	Bail	-5 to 70	X	X		Yes	6/6	No
SFP-GL2LCCxxDCA <sup>1</sup>	1	1471-1611	2x10	120,000	Bail	-5 to 70	X	X		yes	6/6	No
JSH-42L3AD3-20	1, 2, 4	1310	2x10	20,000	Bail	-15 to 85	X	C		Yes	6/6	No
JSH-42L3DD1	1, 2, 4	1310	2x10	4,000	Bail	-40 to 85	X			Yes	6/6	Yes
JSH-42L4DD1	1, 2, 4	1310	2x10	4,000	Bail	-40 to 85	X	X		Yes	6/6	Yes
<b>SFP+</b>												
PLRXPL-VC-SH4-23-N	2, 4, 8	850 limiting	2x10	150'	Bail	0 to 70	X			Yes	6/6	No
PLRXPL-VE-SH4-23-N	2, 4, 8	850 limiting	2x10	150'	Bail	-5 to 85	X			Yes	6/6	No
JSH-85L3AA1-10	2, 4, 8	1310	2x10	10,000	Bail	0 to 70	X			Yes	6/6	No
JSH-85L3AB1-10	2, 4, 8	1310	2x10	10,000	Bail	-20 to 85	X			Yes	6/6	No
PLRXPL-VC-S43-23-N	10	850 limiting	2x10	200'	Bail	0 to 70			C	Yes	6/6	No
PLRXPL-VE-S43-23-N	10	850 limiting	2x10	200'	Bail	-5 to 85			C	Yes	6/6	No
PLRXPL-SC-S43-22-N	10	850 limiting	2x10	300'	Bail	0 to 70			X	Yes	6/6	No
JSH-01LWAA1	10	1310	2x10	10,000	Bail	0 to 70			X	Yes	6/6	No
JSH-01LWAB1	10	1310	2x10	10,000	Bail	-20 to 85			X	Yes	6/6	No
<b>XFP</b>												
PLRXXL-SC-S43-C1	9.95–10.75	850	2x15	300'	Bail	0 to 70	X		X	Yes	6/6	NA
JXP-01SWAC1	9.95–11.1	850	2x15	300'	Bail	-5 to 70	X		X	Yes	6/6	NA
JXP-01LWAC1	9.95–11.1	1310	2x15	10,000	Bail	-5 to 70	X		X	Yes	6/6	NA
JXP-01LEAB1	9.95–11.1	1310	2x15	10,000	Bail	-40 to 85	X		X	Yes	6/6	NA
JXP-01LGAB1	9.95–11.1	1310	2x15	10,000	Bail	-5 to 70	X		X	Yes	6/6	NA
JXP-01EEAB1	9.95–11.1	1550	2x15	40,000	Bail	-40 to 85	X		X	Yes	6/6	NA
JXP-01EGAB1	9.95–11.1	1550	2x15	40,000	Bail	-5 to 70	X		X	Yes	6/6	NA
JXP-01ZEAB1	9.95–11.1	1550	2x15	80,000	Bail	-5 to 85	X		X	Yes	6/6	NA
JXP-01ZGAB1	9.95–11.1	1550	2x15	80,000	Bail	-5 to 70	X		X	Yes	6/6	NA

1. Over OM3 fiber (2000 MHz\*km)

2. C = compatible, X = compliant

3. xx - wavelength channel: 27 = 1271 nm, 61 = 1611 nm

## Optical Transceivers — SONET/SDH

Product Code	Data Rate	Wavelength (nm)	Connector Type	Distance (km)	Latch Handle Type	Temperature Range (°C)	DDM Plus	RoHS Compliance	Multi Rate
<b>SFP</b>									
SFP-MS1LKT3DCA	OC48	1310	LC	2	Bail	-40 to 85	Yes	6/6	Yes
SFP-MI1LKT3DCA	OC48	1310	LC	20	Bail	-40 to 85	Yes	5/6	Yes
SFP-MI2LKT5DCA	OC48	1550	LC	40	Bail	-40 to 85	Yes	5/6	Yes
SFP-ML1LKT3DCA	OC48	1310	LC	40	Bail	-40 to 85	Yes	5/6	Yes
SFP-ML2LKT5DCA	OC48	1550	LC	80	Bail	-40 to 85	Yes	5/6	Yes
SFP-MI2LCCxxDCA <sup>3</sup>	OC48	1471-1611	LC	40	Bail	-5 to 70	Yes	6/6	Yes
SFP-ML2LCCxxDCA <sup>3</sup>	OC48	1471-1611	LC	80	Bail	-5 to 70	Yes	6/6	Yes
SFP-DA21CS00C-AA <sup>1</sup>	OC48	1563.86-1528.77	LC	120	Bail	-5 to 70	Yes	6/6	Yes
SFP-DA56CS00C-AA <sup>1</sup>	OC48	1563.86-1528.77	LC	180	Bail	-5 to 70	Yes	6/6	Yes
<b>XFP</b>									
JXP-01LMAB1	9.95-11.35	1310	LC	10	Bail	-40 to 85	Yes	6/6	Yes
JXP-01LMAC1	9.95-11.35	1310	LC	10	Bail	-5 to 70	Yes	6/6	Yes
JXP-01LMAD1	9.95-11.35	1310	LC	10	Bail	-5 to 70	Yes	6/6	Yes
JXP-01EMAB1	9.95-11.35	1550	LC	40	Bail	-40 to 85	Yes	6/6	Yes
JXP-01EMAC1	9.95-11.35	1550	LC	40	Bail	-5 to 70	Yes	6/6	Yes
JXP-01ZMAB1 <sup>4</sup>	9.95-11.35	1550	LC	80	Bail	-5 to 85	Yes	6/6	Yes
JXP-01ZMAC1 <sup>4</sup>	9.95-11.35	1550	LC	80	Bail	-5 to 70	Yes	6/6	Yes
JXP-01ZEAB1 <sup>2</sup>	9.95-11.35	1550	LC	80	Bail	-5 to 85	Yes	6/6	Yes
JXP-01ZGAB1 <sup>2</sup>	9.95-11.35	1550	LC	80	Bail	-5 to 70	Yes	6/6	Yes
JXP-01FMAB1-AA <sup>1</sup>	9.95-11.35	1563.86-1528.77	LC	40	Bail	-40 to 85	Yes	6/6	Yes
JXP-01FMAC1-AA <sup>1</sup>	9.95-11.35	1563.86-1528.77	LC	40	Bail	-5 to 70	Yes	6/6	Yes
JXP-01DMAB1-AA <sup>1,4</sup>	9.95-11.35	1563.86-1528.77	LC	80	Bail	-5 to 85	Yes	6/6	Yes
JXP-01DMAC1-AA <sup>1,4</sup>	9.95-11.35	1563.86-1528.77	LC	80	Bail	-5 to 70	Yes	6/6	Yes
JXP-01DEAB1-AA <sup>1,2</sup>	9.95-11.35	1563.86-1528.77	LC	80	Bail	-5 to 85	Yes	6/6	Yes
JXP-01DGAB1-AA <sup>1,2</sup>	9.95-11.35	1563.86-1528.77	LC	80	Bail	-5 to 70	Yes	6/6	Yes

1. AA-45 C band channels available (1563.86-1528.77)

2. Dispersion tolerance is 1450 ps/nm

3. xx - wavelength channel: 47 = 1471 nm, 61 = 1611 nm

4. Dispersion tolerance is 1600 ps/nm

## Cages

Product Code	Pin Length	Description	PCI Compliant	EMI Enhanced	Minimum Single-sided PCB Thickness	Belly-to-Belly	Connector Opening
<b>Solder-down Cages</b>							
PL-KP1-00-000-02	.144" (3.66 mm)	Solder down cage for standard applications, .062" minimum PCB		Yes	.062" (1.6 mm)	NA	.563" (14.3 mm)
PL-KP1-00-000-06	.144" (3.66 mm)	Solder down cage for standard applications, .062" minimum PCB, EMI-enhanced version of the KP1-02 cage		Yes	.062" (1.6 mm)	NA	.563" (14.3 mm)
<b>Press-fit Cages</b>							
PL-KP2-00-000-04	.110" (2.8 mm)	Press-fit, standard application, .563" opening around electrical connector			.062" (1.6 mm)	.125" (3.2 mm)	.563" (14.3 mm)
PL-KP2-00-000-05	.110" (2.8 mm)	Press-fit, standard application, .625" opening around electrical connector			.062" (1.6 mm)	.125" (3.2 mm)	.625" (15.9 mm)
PL-KP2-00-000-06	.110" (2.8 mm)	Press-fit, for standard PCB, EMI-enhanced version of the KP2-04 cage for 4G		Yes	.062" (1.6 mm)	.125" (3.2 mm)	.563" (14.3 mm)
PL-KP2-00-000-15	.085" (2.2 mm)	Press-fit, standard application .062 (single sided) and .090" (belly-to-belly) PCB			.062" (1.6 mm)	.090" (2.3 mm)	.625" (15.9 mm)
PL-KP2-00-000-16	.085" (2.2 mm)	Press-fit, for .090" PCB belly-to-belly, EMI-enhanced version of the KP2-15 for 4G, with a smaller connector opening		Yes	.062" (1.6 mm)"	.090" (2.3 mm)	.563" (14.3 mm)
PL-KP2-00-000-21	.110" (2.8 mm)	Press-fit, PCI-compliant (1° tilt), EMI-enhanced version is KP2-26	X		.062" (1.6 mm)	.125" (3.2 mm)	.563" (14.3 mm)
PL-KP2-00-000-26	.110" (2.8 mm)	Press-fit, PCI-compliant (1° tilt) for standard PCB, EMI-enhanced version	X	Yes	.062" (1.6 mm)	.125" (3.2 mm)	.563" (14.3 mm)
<b>1x2 and 1x4 Press-fit Cages</b>							
PL-KP2-21-000-21	.085" (2.2 mm)	Press-fit, 1x2 side-by-side, EMI-enhanced cage for 4G+ applications		Yes	.062" (1.6 mm)	.090" (2.3 mm)	.563" (14.3 mm)
PL-KP2-21-000-8L	.110" (2.8 mm)	Press-fit, 1x2 side-by-side, EMI-enhanced cage for 4G+ applications, with light pipes		Yes	.062" (1.6 mm)	.090" (2.3 mm)	.563" (14.3 mm)

All cages are RoHS compliant.