



See every bit, byte, and packet®

# Pluggable Transceivers and Cables

Connect your tools with Transceivers, Direct Attach Cables, Copper & Fiber Cables and Accessories

Model No.	Network Speed	Type	Media	Connector	Optical Bandwidth	Description
<b>Pluggable Transceivers: 1GbE SFP</b>						
<b>SFP+LR</b>	1Gbps/10Gbps	1000BASE-LX 1G Ethernet 10GBASE-LR/LW 10G Ethernet	9u SMF	LC	1260nm-1600nm RX 1260nm-1355nm TX	1GbE SFP
<b>SFP+T</b>	1Gbps/10Gbps	1000BASE-SX 1G Ethernet 10GBASE-SR/SW 10G Ethernet	50u MMF/62.5u MMF	LC	840nm-860nm RX 840nm-860nm TX	1GbE SFP
<b>SFPEX40km</b>	1Gbps	SONET OC-48 LR-1 / SDH STM L-16.1 SONET OC-12 / SDH STM 4 SONET OC-3 / SDH STM-1 Gigabit Ethernet / 1x/2x Fibre Channel	9u SMF	LC	1270nm-1600nm RX 1280nm-1355nm TX	1GbE SFP
<b>SFPEX90km</b>	1Gbps	SONET OC-48 LR-1 / SDH STM L-16.1 SONET OC-12 / SDH STM 4 SONET OC-3 / SDH STM-1 Gigabit Ethernet / 1x/2x Fibre Channel	9u SMF	LC	1270nm-1600nm RX 1280nm-1355nm TX	1GbE SFP
<b>SFPFX</b>	1Gbps	1000Base-SX	50u MMF/62.5u MMF	LC	770nm-860nm RX 830nm-860nm TX	1GbE SFP
<b>SFPLX</b>	1Gbps	1000Base-LX	9u SMF	LC	1270nm-1500nm RX 1270nm-1355nm TX	1GbE SFP
<b>SFPLX-WB</b>	1Gbps	1000Base-LX	9u SMF	LC	1265nm-1600nm RX 1270nm-1360nm TX	1GbE SFP
<b>SFPSX</b>	1Gbps	1000Base-SX Ethernet	50u MMF/62.5u MMF	LC	770nm-860nm RX 830nm-860nm TX	1GbE SFP
<b>SFPTX</b>	1Gbps	10/100/1000 BASE-T	Category 5 UTP	RJ45	--	1GbE SFP
<b>SFPTX1G</b>	1Gbps	10/100/1000 BASE-T	Category 5 UTP	RJ45	--	1GbE SFP
<b>SFPZX</b>	1Gbps	1000BASE-LW 1G Ethernet	9u SMF	LC	1270nm-1600nm RX 1430nm-1580nm TX	1GbE SFP
<b>Pluggable Transceivers: 10G Optical SFP+</b>						
<b>SFP+-10GBi-Di-1270-1330</b>	10Gbps	SFP-10G-BX	9u SMF	LC simplex	1270nm-TX/1330nm-RX	10G Optical SFP+
<b>SFP+-10GBi-Di-1330-1270</b>	10Gbps	SFP-10G-BX	9u SMF	LC simplex	1330nm-TX/1270nm-RX	10G Optical SFP+
<b>SFP+ER</b>	10Gbps	10GBASE-ER/EW 10G Ethernet	9u SMF	LC	1260nm-1600nm RX 1530nm-1565nm TX	10G Optical SFP+
<b>SFP+SR</b>	1Gbps/10Gbps	1000BASE-SX 1G Ethernet 10GBASE-SR/SW 10G Ethernet	50u MMF/62.5u MMF	LC	840nm-860nm RX 840nm-860nm TX	10G Optical SFP+
<b>SFP+LR</b>	1Gbps/10Gbps	1000BASE-LX 1G Ethernet 10GBASE-LR/LW 10G Ethernet	9u SMF	LC	1260nm-1600nm RX 1260nm-1355nm TX	10G Optical SFP+
<b>SFP+LR10G</b>	10Gbps	10GBASE-LRM 10G Ethernet 1200-SM-LL-L 10G Fibre Channel	9u SMF	LC	1260nm-1600nm RX 1260nm-1355nm TX	10G Optical SFP+
<b>SFP+LR M10G</b>	10Gbps	10GBASE-LRM 10G Ethernet	50u MMF/62.5u MMF	LC	1260nm-1600nm RX 1260nm-1355nm TX	10G Optical SFP+
<b>SFP+SR10G</b>	10Gbps	10GBASE-SR/SW 10G Ethernet	50u MMF/62.5u MMF	LC	840nm-860nm RX 840nm-860nm TX	10G Optical SFP+
<b>SFP+T</b>	10 mbpsd/100mbps/1Gbps	1000BASE-T	Category 5 UTP	RJ45	--	10G Optical SFP+
<b>SFP+SR_T</b>	1Gbps/10Gbps	10GBASE-SR/SW 10G Ethernet				
<b>SFP+ZR80</b>	10Gbps	10GBASE-ER/EW 10G Ethernet	50u MMF/62.5u MMF	LC	840nm-860nm RX 840nm-860nm TX	10G Optical SFP+



See every bit, byte, and packet®

# Pluggable Transceivers and Cables

Connect your tools with Transceivers, Direct Attach Cables,  
Copper & Fiber Cables and Accessories

Model No.	Network Speed	Type	Media	Connector	Optical Bandwidth	Description
<b>Pluggable Transceivers: QSFP</b>						
<b>QSFP+100G-BiDi</b>	1Gbps/10Gbps	40GBASE-SR4	OM4 50 / 125µm MMF	Single 1x12 MPO receptacle	840nm-860nm RX 840nm-860nm TX	QSFP
<b>QSFP+10GLR</b>	10Gbps	10GBASE-SR/SW	OM4 50 / 125µm MMF	LC	840nm-860nm RX 840nm-860nm TX	QSFP
<b>QSFP+28SR4</b>	100Gbps	100GBASE-SR4 100G Ethernet	OM4 50 / 125µm MMF	Single MPO12 receptacle	840nm-860nm RX 840nm-860nm TX	QSFP
<b>QSFP+28SR-SWDM4</b>	100Gbps	100G Ethernet over Duplex MMF	OM4 50 / 125µm MMF	Duplex LC receptacles	λ1 850 RX, 850 TX λ2 880 RX, 880 TX λ3 910 RX, 910 TX λ4 940 RX, 940 TX	QSFP
<b>QSFP+40-LR4</b>	Supports 41.2 Gb/s aggregate bit rates	40BASE-LR4	SMF	LC Connector	Lane center wavelengths (range) 1264.5 – 1277.5 1284.5 – 1297.5 1304.5 – 1317.5 1324.5 – 1337.5	QSFP
<b>QSFP+40G</b>	Multi-rate capability: 1.06Gb/s to 10.5Gb/s per channel	40BASE-SR4	MMF	Single 1x12 MPO receptacle QSFP+ Gen2 Optical Transceiver Module	840nm-860nm RX 840nm-860nm TX	QSFP
<b>QSFP+40G-ER4</b>	Multi-rate capability: 1.06Gb/s to 10.5Gb/s per channel	40BASE-SR4	MMF	Single 1x12 MPO receptacle QSFP+ Gen2 Optical Transceiver Module	840nm-860nm RX 840nm-860nm TX	QSFP
<b>QSFP+40G-BiDi</b>	Multi-rate capability: 1.06Gb/s to 10.5Gb/s per channel	40BASE-SR4	MMF	Single 1x12 MPO receptacle QSFP+ Gen2 Optical Transceiver Module	840nm-860nm RX 840nm-860nm TX	QSFP
<b>QSFP28PSM4</b>	10Gbps	10GBASE-SR/SW 10G Ethernet	50u MMF / 62.5u MMF	LC	840nm-860nm RX 840nm-860nm TX	QSFP



**Have Questions?**

sales@garlandtechnology.com | 716.242.8500 | garlandtechnology.com