

ZyXEL GBIC/SFP Transceiver Family

ZyXEL GBIC Transceiver Family



ZyXEL SFP Transceiver Family



Benefits

ZyXEL GBIC Transceiver Family

Gigabit Speed and Flexibility

ZyXEL's Gigabit Interface Converter (GBIC) transceiver family provides performance and flexibility with full duplex Gigabit speeds and hot-pluggable into Gigabit Ethernet port.

Industry Standards-based Compliance

ZyXEL's GBIC transceiver family is compliant with IEEE 802.3z and GBIC Revision 5.5 allowing easy interoperability with all standard compliance devices from different vendors. For multi-mode/single-mode fiber optic, ZyXEL GBIC transceivers provide high transmission performance and quality for different distances requirement from 220m to 80Km.

ZyXEL SFP Transceiver Family

Gigabit Speed and Flexibility

ZyXEL's Small Form-factor Pluggable (SFP) transceiver family provides performance and flexibility with full duplex Gigabit speeds and hot-pluggable into Gigabit Ethernet port.

Small Size and High Port Density

ZyXEL's SFP transceiver's compact design provides high port density. For example, ZyXEL GS-3012F switch can connect up to 12 fiber links — all at an affordable price.

Industry Standards-based Compliance

ZyXEL's SFP transceiver family is compliant with IEEE 802.3z and SFP MSA allowing easy interoperability with all standard compliance devices from different vendors.

Features

ZyXEL GBIC Transceiver Family

- Gigabit Speed and Flexibility
- Compact Size
- Flexible Implementation
- Hot Pluggable
- Dual Power Supply +5V and +3.3 V
- GBIC Revision 5.5 Compliant
- 1.25Gbps Gigabit Ethernet Compliant
- Class 1 Laser Safety Standard IEC 825 Compliant

ZyXEL SFP Transceiver Family

- Gigabit Speed and Flexibility
- Hot Pluggable
- Compact Size and High Port Density
- Industry Standards-based Compliance
- 802.3z, SFP MSA (Multi-Source Agreement) Compliance
- Single +3.3V Power Supply
- Low Power Dissipation

Specifications

ZyXEL GBIC Transceiver Family

Model	Dimensions (L x D x H) mm	Optical Receiver Sensitivity	Wavelength	Connector	Transmission Distance vs. Fiber Cable Specification			Operational Ranges	
					62.5um MMF	50um MMF	9/10um SMF	Supply Voltage	Max Current
GBIC-SX	65 x 30 x 10 mm	-17 dBm	850nm	SC	220 m	550 m	-	3.15 ~ 5.25 V	300 mA
GBIC-LX-10	65 x 30 x 10 mm	-20 dBm	1310nm	SC	550 m	550 m	10 km	3.15 ~ 5.25 V	300 mA
GBIC-LHX1310-40	65 x 30 x 10 mm	-23 dBm	1310nm	SC	-	-	40 km	3.15 ~ 5.25 V	300 mA
GBIC-ZX-80	65 x 30 x 10 mm	-24 dBm	1550nm	SC	-	-	80 km	3.15 ~ 5.25 V	300 mA

ZyXEL SFP Transceiver Family

Model	Dimensions (L x D x H) mm	Optical Receiver Sensitivity	Wavelength	Connector	Transmission Distance vs. Fiber Cable Specification			Operational Ranges	
					62.5um MMF	50um MMF	9/10um SMF	Supply Voltage	Max Current
SFP-SX	56 x 13.4 x 12.46 mm	-17 dBm	850nm	LC	220 m	550 m	-	3.15 ~ 3.45 V	300 mA
SFP-LX-10	56 x 13.4 x 12.46 mm	-20 dBm	1310nm	LC	550 m	550 m	10 km	3.15 ~ 3.45 V	300 mA
SFP-LHX1310-40	56 x 13.4 x 12.46 mm	-23 dBm	1310nm	LC	-	-	40 km	3.15 ~ 3.45 V	300 mA
SFP-ZX-80	56 x 13.4 x 12.46 mm	-24 dBm	1550nm	LC	-	-	80 km	3.15 ~ 3.45 V	300 mA

Safety Certification

- Class 1 Laser
- 21 CFR 1040.10 and 1040.11 compliant
- CSA
- TUV

Operating Environment Information

- Operating Temperature: 0°C - 70°C
- Storage Temperature: -40°C ~ 85°C
- Relative Humidity: 5% ~ 95%

Operating Information

ZyXEL GBIC Transceiver Family

Model Name	Product Description
GBIC-SX	1000Base-SX GBIC Transceiver
GBIC-LX-10	1000Base-LX GBIC Transceiver
GBIC-LX-1310-40	1000Base-LHX GBIC Transceiver
GBIC-ZX-80	1000Base-ZX GBIC Transceiver

ZyXEL SFP Transceiver Family

Model Name	Product Description
SFP-SX	1000Base-SX SFP Transceiver
SFP-LX-10	1000Base-LX SFP Transceiver
SFP-LX-1310-40	1000Base-LHX SFP Transceiver
SFP-ZX-80	1000Base-ZX SFP Transceiver

ZyXEL GBIC/SFP Transceiver Compatibility Matrix

	Transceivers Fast Ethernet Switch				Gigabit Ethernet Switch				
	ES-1124	ES-2024	ES-3124	ES-4024	GS-1116	GS-1124	GS-2024	GS-3012	GS-3012F
GBIC-SX				•					
GBIC-LX-10				•					
GBIC-LHX1310-40				•					
GBIC-ZX-80				•					
SFP-SX	•	•	•		•	•	•	•	•
SFP-LX-10	•	•	•		•	•	•	•	•
SFP-LHX1310-40	•	•	•		•	•	•	•	•
SFP-ZX-80	•	•	•		•	•	•	•	•



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