

# 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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