# GS1100 Series

## 8/16/24-port GbE Unmanaged Switch

The Zyxel GS1100 Series is the best solution for instant Gigabit connectivity in office environments demanding silent operation and better energy efficiency. With power-saving functions, Gigabit Ethernet and a fanless design, the GS1100 Series provides plug-and-play simplicity for high-bandwidth network applications.

## Benefits

### Green networking

The GS1100 Series not only offers Gigabit Ethernet connectivity for high-bandwidth network applications, but also power-saving functions for better energy efficiency. Capable of dynamically adjusting power output according to traffic, active links and cable length, the GS1100 Series can reduce energy consumption for lowered operating costs.

### Traffic detection — Energy Efficient Ethernet (EEE) compliance

The IEEE 802.3az Energy Efficient Ethernet (EEE) feature automatically detects network traffic and adjusts power consumption dynamically, enabling the switch to reduce power consumption during low link utilization periods.

### Inactive link detection

The inactive link detection function automatically reduces power usage when inactive links or devices are detected. The GS1100 Series can adjust power consumption according to link status and the number of active network devices.

### Cable length detection compliance

This green feature enables the switch to automatically detect the length of connected Ethernet cables and adjust power usage accordingly. The shorter the cable length, the less power it consumes.

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- Plug and play Gigabit wire-speed connectivity
- Efficient Energy saving with green Ethernet features
- Fanless design for whisper quiet operation
- Easily to check status with intuitive port LED
- GS1100-10HP supports PoE+
- Flexible choices from 8-port to 24-port

## Fanless design

The GS1100 Series has fanless design that ensures silent operation in small or quiet office environments. The GS1100-10HP PoE model is specifically designed with an external power adapter that eliminates the need for an additional fan to cool down the device, making it perfect for quiet PoE deployments.

## Gigabit to the desktop

The GS1100 Series offer 8/16/24-port Gigabit non-blocking wire-speed transmission. In addition, the GS1100-24 and GS1100-10HP are equipped with 2 extra SFP slots supporting dual rate (GbE and 100M speed) connections for long-distance deployments. With superior Gigabit performance and flexible port options, the GS1100 Series is the ideal solution for bandwidth-intensive applications in small office environments.

## Freedom of installation via PoE

The GS1100-10HP supports the IEEE 802.3at PoE+ standard and easily connects with PoE ready devices to your network with plug-and-play design. PoE+ allows 30 watts per port to power PoE-enabled WLAN APs, VoIP phones and IP surveillance cameras through Cat 5e cables reducing the need of power adapters saving installation time and cost. The GS1100-10HP has been designed with eight full PoE+ ports with total PoE power budget of up to 130 Watts, which makes it an ideal PoE connectivity solution for home, shop and small office environments.



## Model List

### GS1100-10HP
8-port GbE Unmanaged PoE Switch with GbE Uplink



- 8 x GbE PoE RJ-45 ports
- 2 x GbE SFP ports
- PoE power budget: 130 W

### GS1100-24E
24-port GbE Unmanaged Switch



- 24 x GbE RJ-45 ports

### GS1100-16
16-port GbE Unmanaged Switch



- 16 x GbE RJ-45 ports

### GS1100-24
24-port GbE Unmanaged Switch with GbE Uplink



- 24 x GbE RJ-45 ports
- 2 x GbE SFP ports

# Specifications

| Model | GS1100-10HP | GS1100-16 | GS1100-24E | GS1100-24 |
|---|---|---|---|---|
| Product name | 8-port GbE Unmanaged PoE Switch with GbE Uplink | 16-port GbE Unmanaged Switch | 24-port GbE Unmanaged Switch | 24-port GbE Unmanaged Switch with GbE Uplink |
| Switch class | Unmanaged | Unmanaged | Unmanaged | Unmanaged |
| **Port Density** | | | | |
| Total port count | 10 | 16 | 24 | 26 |
| 100/1000 Mbps | 8 | 16 | 24 | 24 |
| Gigabit SFP | 2 | - | - | 2 |
| **PoE** | | | | |
| 802.3at PoE ports | 8 | - | - | - |
| Total PoE budget (watts) | 130 | - | - | - |
| **Performance** | | | | |
| Switching capacity (Gbps) | 20 | 32 | 48 | 52 |
| Forwarding rate (Mpps) | 14.88 | 23.8 | 35.7 | 38.7 |
| Packet buffer (byte) | 256 K | 525 K | 525 K | 525 K |
| MAC address table | 8 K | 8 K | 8 K | 8 K |
| Jumbo frame (byte) | 9 K | 9 K | 10 K | 10 K |
| Auto MDI/MDI-X | Yes | Yes | Yes | Yes |
| 802.1p CoS | Yes | Yes | Yes | Yes |
| VLAN packet pass-through | Yes | Yes | Yes | Yes |
| **Power** | | | | |
| Input | 100 - 240 V AC, 50/60 Hz | 100 - 240 V AC, 50/60 Hz | 100 - 240 V AC, 50/60 Hz | 100 - 240 V AC, 50/60 Hz |
| Power supply | External | Internal | Internal | Internal |
| Max. power consumption* (watt) | 151.3 | 10 | 13 | 14.5 |
| **Physical Specifications** | | | | |
| Item — Dimensions (WxDxH)(mm/in.) | 250 x 104 x 27/ 9.84 x 4.10 x 1.06 | 215 x 133 x 42/ 8.46 x 5.24 x 1.65 | 267 x 162 x 42/ 10.51 x 6.38 x 1.65 | 441 x 131 x 44/ 17.36 x 5.16 x 1.73 |
| Item — Weight* (kg/lb.) | 0.62/1.37 | 0.9/1.98 | 1.5/3.3 | 1.8/3.96 |
| Packing — Dimensions* (WxDxH)(mm/in.) | 306 x 246 x 65/ 12.04 x 9.69 x 2.56 | 326 x 228 x 72/ 12.83 x 8.98 x 2.83 | 326 x 228 x 72/ 12.83 x 8.98 x 2.83 | 497 x 223 x 72/ 19.57 x 8.78 x 2.83 |
| Packing — Weight* (kg/lb.) | 1.72/3.79 | 1.62/3.57 | 1.73/3.81 | 2.51/5.53 |
| Included accessories | • Power adapter<br>• Power cord<br>• Wall-mount kit | • Power cord<br>• Wall-mount kit<br>• Rack mounting kit | • Power cord<br>• Wall-mount kit<br>• Rack mounting kit | • Power cord<br>• Rack mounting kit |
| **Green Features** | | | | |
| Fanless | Yes | Yes | Yes | Yes |
| **Environmental Specifications** | | | | |
| Operating — Temperature* | 0°C to 40°C/32°F to 104°F | | | |
| Operating — Humidity | 10% to 90% (non-condensing) | | | |
| Storage — Temperature | -40°C to 70°C/-40°F to 158°F | | | |
| Storage — Humidity | 10% to 95% (non-condensing) | | | |
| MTBF* (hr) | 1,395,820 | 1,156,942 | 366,919 | 388,378 |
| Heat dissipation* (BTU/hr) | 515.9 | 32.86 | 43.53 | 51.25 |

\* Content applies to the latest hardware revision. Refer to the Ordering Information section in this document for details.

# Feature

## Standard Compliance

- IEEE 802.3 10BASE-T Ethernet
- IEEE 802.3u 100BASE-TX Ethernet
- IEEE 802.3ab 1000BASE-T Ethernet
- IEEE 802.3az EEE support
- IEEE 802.3x flow control
- IEEE 802.3z 1000BASE-X
- IEEE 802.1p CoS
- IEEE 802.3af PoE
- IEEE 802.3at PoE Plus

## Certifications Safety

- Safety:
  - LVD
  - BSMI
- EMC (GS1100-10HP: Class B, GS1100-16/24/24E: Class A)
  - CE
  - FCC
  - RCM
  - ICES-003
  - BSMI
- RoHS
- REACH

## Warranty

- Limited life-time warranty*

\* Warranty terms, service availability, and service response times may vary from country or region to country or region

# Accessories

## Transceivers (Optional)

| Model | Speed | Connector | Wavelength | Max. Distance | DDMI |
|---|---|---|---|---|---|
| **SFP-1000T** | Gigabit | RJ-45 | - | 0.1 km (109 yd) | - |
| **SFP-SX-D** | Gigabit | Duplex LC | 850 nm | 0.55 km (601 yd) | Yes |
| **SFP-SX-E** | Gigabit | Duplex LC | 850 nm | 0.55 km (601 yd) | Yes |
| **SFP-LX-10-D** | Gigabit | Duplex LC | 1310 nm | 10 km (10936 yd) | Yes |
| **SFP-LX-10-E** | Gigabit | Duplex LC | 1310 nm | 10 km (10936 yd) | Yes |
| **SFP-LHX1310-40-D** | Gigabit | Duplex LC | 1310 nm | 40 km (43744 yd) | Yes |
| **SFP-ZX-80-D** | Gigabit | Duplex LC | 1550 nm | 80 km (87488 yd) | Yes |
| **SFP-BX1310-10-D** | Gigabit | Single LC | 1310 nm (Tx); 1490 nm (Rx) | 10 km (10936 yd) | Yes |
| **SFP-BX1310-E** | Gigabit | Single LC | 1310 nm (Tx); 1550 nm (Rx) | 20 km (21872 yd) | Yes |
| **SFP-BX1490-10-D** | Gigabit | Single LC | 1490 nm (Tx); 1310 nm (Rx) | 10 km (10936 yd) | Yes |
| **SFP-BX1550-E** | Gigabit | Single LC | 1550 nm (TX); 1310 nm (RX) | 20 km (21872 yd) | Yes |

# Ordering Information

| Model | Part Number | Hardware Revision |
|---|---|---|
| **GS1100-10HP** | GS1100-10HP-EU0102F*, GS1100-10HP-US0102F* | Revision B1 |
| | GS1100-10HP-EU0101F, GS1100-10HP-US0101F | |
| **GS1100-16** | GS1100-16-EU0103F, GS1100-16-US0103F | Revision B1 |
| **GS1100-24E** | GS1100-24E-EU0103F, GS1100-24E-US0103F | Revision B1 |
| **GS1100-24** | GS1100-24-EU0103F, GS1100-24-US0103F | Revision B1 |

\* Represents the latest hardware revision.

**For more product information, visit us on the web at www.zyxel.com**

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