



## XGS1250-12

12-Port Web-Managed Multi-Gigabit Switch includes 3-Port 10G and 1-Port 10G SFP+

Home and small office users need more bandwidth demands nowadays such as multi-media streaming, increasing wireless and IoT traffic. The Zyxel Multi-Gigabit switch XGS1250-12 is built for flexible network expansion. It comes with eight Gigabit Ethernet ports, three Multi-Gigabit ports support 5-speed 100M/1G/2.5G/5G/10G, and plus one 10G SFP+ port. The port combination can easily connect to diversified devices including iMac Pro, 10G NAS or server, WiFi 6 AP and new 2.5G motherboards to maximize their speed delivery for more efficient network. The user-friendly Web GUI makes users who need simple network management for their home or office dream come true. Manage and protect your network traffic can be done easily through intuitive GUI.



3 Multi-Gigabit ports support 5-speed (100M/1G/2.5G/5G/10G) for more flexible network installation



Turn off Ethernet port LEDs by using either the front panel button or Web GUI



Smart fan design delivers whisper quiet operation



Smart features such as QoS, VLAN, Link aggregation and IGMP snooping offer smooth network experience



User-friendly web-based set-up interface brings easy configuration and management



Efficient Energy saving with green Ethernet features

# Benefits

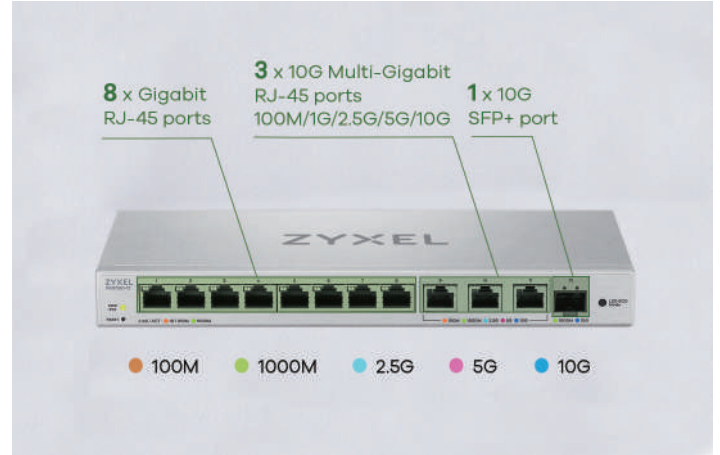
## Double the 10G capability!

The XGS1250-12 features three Multi-Gigabit ports supporting speed up to 10G and one 10G SFP+ port while other vendors only offering 2 ports. The Multi-Gigabit port enables you to upgrade network up to 10 times more bandwidth capacity, offering maximum flexibility to adopt most of 10G devices in your daily work.



## Agile network applications

Features with eight Gigabit RJ-45 ports, three Multi-Gigabit ports and one 10G fiber port; the port combination adds more flexibility for the network connection and is capable of servicing a range of network devices such as i Mac Pro, 10G NAS, servers, WiFi 6 APs, or new 2.5G motherboards. The unique 5-color indicator on the front panel is designed for you to check the link speed instantly.



## Experience whisper-silent and energy-saving operations

With the built-in smart fan which is designed to automatically adjust speeds based on the device temperature, you can barely hear the sound while the switch is in operation. Also, you can deactivate the Ethernet port LEDs for distraction-free operation by switching to LED ECO mode through the front panel button\* or the web-based interface\*\*. It's an ideal working partner for your office environment no matter it's on the desktop or mounted on the wall.

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

\*\* New for FW V2.00.

## Web managed plus smart switching features

The XGS1250-12 caters to most users and is an affordable solution with essential features including VLAN, QoS, IGMP snooping v1/v2 and v3 compatible, link aggregation, and port mirroring. These smart features are easily configurable through a user-friendly web-based interface. It's the most ideal solution to simplify networks for home and small office users.



## Why Multi-Gigabit

Increasing new applications raise the demand for higher network speed requirement. The Multi-Gigabit RJ-45 ports provide more speed options for your network. Before upgrading the network, network speed of motherboard, PC, Wireless AP and even the network cable to be used should all be properly checked to achieve the maximum network throughput.


| Multi-Speed Devices    | 2.5 Gbps | 5 Gbps | 10 Gbps RJ-45 | 10 Gbps SFP+ |
|------------------------|----------|--------|---------------|--------------|
| Intel Z390 Motherboard | ✓        | -      | -             | -            |
| WiFi 6 AP (2x2)        | ✓        | -      | -             | -            |
| WiFi 6 AP (4x4)        | -        | ✓      | -             | -            |
| NAS                    | ✓        | ✓      | ✓             | ✓            |

## Using Your Current Cabling Is Fine

The Multi-Gigabit support can leverage existing Cat 5e cable infrastructure to upgrade network speed up to 5 times for cost efficient network setup.

| Cable specs | 100 Mbps | 1 Gbps | 2.5 Gbps | 5 Gbps | 10 Gbps   |
|-------------|----------|--------|----------|--------|-----------|
| Cat 5e      | ✓        | ✓      | ✓        | ✓      | -         |
| Cat 6       | ✓        | ✓      | ✓        | ✓      | Up to 55M |
| Cat 6a      | ✓        | ✓      | ✓        | ✓      | ✓         |

## Specifications

|  |  |                                    |
|--|--|------------------------------------|
| <b>Model</b>                           | <b>XGS1250-12</b>  |                                    |
| <b>Product name</b>                    | 8-Port GbE and 3-Port 10G Web Managed Switch with 10G Uplink                       |                                    |
|  |  |                                    |
| <b>Switch class</b>                    | Web Managed  |                                    |
| <b>Port Density</b>                    |  |                                    |
| <b>Total port count</b>                | 12   |                                    |
| <b>100/1000 Mbps</b>                   | 8  |                                    |
| <b>1G/2.5G/5G/10G Ethernet (RJ-45)</b> | 3  |                                    |
| <b>1G SFP/10G SFP+</b>                 | 1  |                                    |
| <b>Performance</b>                     |  |                                    |
| <b>Switching capacity (Gbps)</b>       | 96   |                                    |
| <b>Forwarding rate (Mpps)</b>          | 71.42  |                                    |
| <b>Packet buffer (byte)</b>            | 1.5 MB   |                                    |
| <b>MAC address table</b>               | 16 K   |                                    |
| <b>Jumbo frame (byte)</b>              | 12 K   |                                    |
| <b>Power</b>                           |  |                                    |
| <b>Input</b>                           | 100 - 240 V AC, 50/60 Hz   |                                    |
| <b>Power supply</b>                    | External   |                                    |
| <b>Max. power consumption (watts)</b>  | 20.06  |                                    |
| <b>Min. power consumption (watts)</b>  | 6.16   |                                    |
| <b>Physical Specifications</b>         |  |                                    |
| <b>Item</b>                            | <b>Dimensions (WxDxH)(mm/in)</b>   | 250 x 104 x 27/9.84 x 4.10 x 1.06  |
|  | <b>Weight (kg/lb.)</b>   | 0.783/1.73                         |
| <b>Packing</b>                         | <b>Dimensions (WxDxH)(mm/in)</b>   | 306 x 225 x 64/12.04 x 8.86 x 1.06 |
|  | <b>Weight (kg/lb.)</b>   | 1.35/2.98                          |
| <b>Green Features</b>                  |  |                                    |
| <b>Fanless</b>                         | -  |                                    |
| <b>Environmental Specifications</b>    |  |                                    |
| <b>Operating</b>                       | <b>Temperature</b>   | 0°C to 40°C/32°F to 104°F          |
|  | <b>Humidity</b>  | 10% to 90% (non-condensing)        |
| <b>Storage</b>                         | <b>Temperature</b>   | -40°C to 70°C/-40°F to 158°F       |
|  | <b>Humidity</b>  | 10% to 90% (non-condensing)        |

## Standard

- IEEE 802.3 10BASE-T Ethernet
- IEEE 802.3u 100BASE-TX Fast Ethernet
- IEEE 802.3ab 1000BASE-T Gigabit Ethernet
- IEEE 802.3an 10GBASE-T
- IEEE 802.3ae 10 Gbit/s Ethernet over fiber
- IEEE 802.3az Energy Efficient Ethernet
- IEEE 802.3x full duplex operation and flow control
- IEEE 802.1p QoS

## Features

- Web-based management
- Auto-MDI/MDIX in all ports
- System password
- VLAN (Port supported)
- Port-based QoS

- 802.1p QoS
- Broadcast storm control
- Loop detection/prevention
- DHCP client
- Static Link aggregation
- Port mirroring
- Weighted Round Robin (WRR) priority QoS
- IGMP snooping v1/v2/and v3 compatible
- Supported multicast groups: 128
- Support Zyxel One Network (ZON Utility)
- **New for V2.00** Ethernet port LED on/off

## LED Indicator

- PWR: Power
- Port 1 ~ 8: Link/Activity
  - Green: 1000 Mbps
  - Amber: 10/100 Mbps

- Port 9 ~ 11: Link/Activity
  - Blue: 10 Gbps
  - Purple: 5 Gbps
  - Sky Blue: 2.5 Mbps
  - Green: 1 Gbps
  - Amber: 100 Mbps
- Port 12: Link/Activity
  - Blue: 10 Gbps
  - Green: 1 Gbps

## Certifications

- Safety: CE-LVD, BSMI
- EMC: CE, EAC, FCC, BSMI Class B

## Package Contents

- Switch
- Power adapter
- Quick Start Guide
- Safety warning and doc.

## Accessories

### Transceivers (Optional)

| Model                   | Speed      | Connector | Wavelength                   | Max. Distance    | DDMI |
|-------------------------|------------|-----------|------------------------------|------------------|------|
| <b>SFP10G-SR</b>        | 10 Gigabit | Duplex LC | 850 nm                       | 0.3 km (328 yd)  | Yes  |
| <b>SFP10G-SR-E</b>      | 10 Gigabit | Duplex LC | 850 nm                       | 0.3 km (328 yd)  | Yes  |
| <b>SFP10G-LR</b>        | 10 Gigabit | Duplex LC | 1310 nm                      | 10 km (10936 yd) | Yes  |
| <b>SFP10G-LR-E</b>      | 10 Gigabit | Duplex LC | 1310 nm                      | 10 km (10936 yd) | Yes  |
| <b>SFP-1000T</b>        | Gigabit    | RJ-45     | -                            | 0.1 km (109 yd)  | -    |
| <b>SFP-SX-D</b>         | Gigabit    | Duplex LC | 850 nm                       | 0.55 km (601 yd) | Yes  |
| <b>SFP-SX-E</b>         | Gigabit    | Duplex LC | 850 nm                       | 0.55 km (601 yd) | Yes  |
| <b>SFP-LX-10-D</b>      | Gigabit    | Duplex LC | 1310 nm                      | 10 km (10936 yd) | Yes  |
| <b>SFP-LX-10-E</b>      | Gigabit    | Duplex LC | 1310 nm                      | 10 km (10936 yd) | Yes  |
| <b>SFP-LHX1310-40-D</b> | Gigabit    | Duplex LC | 1310 nm                      | 40 km (43744 yd) | Yes  |
| <b>SFP-ZX-80-D</b>      | Gigabit    | Duplex LC | 1550 nm                      | 80 km (87488 yd) | Yes  |
| <b>SFP-BX1310-10-D</b>  | Gigabit    | Single LC | 1310 nm (Tx)<br>1490 nm (Tx) | 10 km (10936 yd) | Yes  |
| <b>SFP-BX1310-E</b>     | Gigabit    | Single LC | 1310 nm (Tx)<br>1550 nm (Tx) | 20 km (21872 yd) | Yes  |
| <b>SFP-BX1490-10-D</b>  | Gigabit    | Single LC | 1490 nm (Tx)<br>1310 nm (Tx) | 10 km (10936 yd) | Yes  |
| <b>SFP-BX1550-E</b>     | Gigabit    | Single LC | 1550 nm (Tx)<br>1310 nm (Tx) | 20 km (21872 yd) | Yes  |

## Direct Attach Cables (Optional)

| Model            | Speed        | Connector         |
|------------------|--------------|-------------------|
| <b>DAC10G-1M</b> | SFP+ to SFP+ | 1 m (39.37 inch)  |
| <b>DAC10G-3M</b> | SFP+ to SFP+ | 3 m (118.11 inch) |

## Network Adapter Series (Optional)

| Model          | Product Name   | Interface   |
|----------------|--|---|
| <b>XGN100F</b> | 10G Network Adapter PCIe Card with Single SFP+ Port  | <ul style="list-style-type: none"><li>• 1 x 10 Gbps SFP+ slot</li><li>• PCI Express 3.0</li></ul>   |
| <b>XGN100C</b> | 10G Network Adapter PCIe Card with Single RJ-45 Port | <ul style="list-style-type: none"><li>• 1 x 10 Gbps RJ-45 Ethernet port<br/>(Supported Speeds: 100M/1G/2.5G/5G/10G)</li><li>• PCI Express 3.0</li></ul> |

## Ordering Information

| Model             | Part Number         | Hardware Revision |
|-------------------|---------------------|-------------------|
| <b>XGS1250-12</b> | XGS1250-12-ZZ0102F* | Revision B1       |
|                   | XGS1250-12-ZZ0101F  |                   |
|                   | XGS1250-12-TW0101F  |                   |
|                   | XGS1250-12-JP0101F  |                   |

\* Represents the latest hardware revision.

For more product information, visit us on the web at [www.zyxel.com](http://www.zyxel.com)

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01/03/24