



## XMG1915 Series

### 8/16-port 2.5GbE Smart Managed Switch with 2 SFP+ Uplink

The Zyxel XMG1915 series is a versatile family of 2.5G Multi-Gig Smart Managed switches, available in three models with and without PoE connectivity. Each Ethernet port on these models supports 2.5G speed, and they are equipped with two 10G SFP+ ports to cater to your business's increasing need for high network speeds. The XMG1915 series is designed to support NebulaFlex, offering the most affordable Multi-Gig hybrid switch solution for the SB/SMB market. Whether you choose to set it up through the user-friendly Web GUI or the Nebula Control center for cloud-based unified management, configuration is a breeze. This series ensures that your network can keep up with the rapid growth in data demands without breaking the bank.

### Benefits

#### An easy and affordable way to upgrade your network to Multi-Gig

The XMG1915 Series Switch is the perfect choice for upgrading your SM/SMB network's speed and performance, offering up to 2.5 times faster speeds than today's Gigabit networks. With this switch, it's a breeze to boost your network speed using your existing standard gigabit wiring infrastructure, ensuring you protect your investments without costly and disruptive cable upgrades. Moreover, each copper port on the new Multi-Gigabit switch automatically detects the required speed of the connected device, streamlining the setup process. While Multi-Gigabit switches may operate at different link speeds for individual ports, the XMG1915 Series sets itself apart with an innovative design that intuitively indicates the connection speed for each individual port through front panel LED indicators.



Boost network speed by 2.5G Multi-Gig and 10G SFP+ combinations for small business



Supports Nebula to offer a unified cloud network experience, from wired, wireless to security gateway



Nebula cloud management allows easy deployment, real-time configurations and effortless access to all your cloud devices anywhere, anytime



Facilitate wide variety of network setups by supporting 802.3bt PoE++ (60 W) which is ideal companion to Zyxel WiFi 6/6E APs and IOT devices



Compact and near-silent design is ideal for any working environment



Zyxel **one** network  
Redefining network integration

## The perfect match for Multi-Gig WiFi 6/6E access points

Meet the ideal companions for Multi-Gig WiFi 6/6E Access Points - the XMG1915-10EP and XMG1915-18EP switches. With 8 uninterrupted PoE++ (60 W) ports and a flexible PoE budget of 130 W and 150 W respectively, deploying PoE devices like PTZ cameras, VoIP phones, access points, and IoT devices has never been easier. These switches are the perfect solution to seamlessly connect Zyxel WiFi 6/6E access points at lightning-fast 2.5G speeds, ensuring your network runs smoothly and efficiently.

## NebulaFlex – simply manage it your way!

The XMG1915 Series supports NebulaFlex technology which provides extended flexibility for users to easily switch network management modes between standalone and our license-free Nebula cloud management platform. Nebula control center provides single pane of glass for Zyxel products; the local web GUI accesses the full feature set and all configuration options of your switch from the very first release.

## Model List

### XMG1915-10E

8-port 2.5GbE Smart Managed Switch with 2 SFP+ Uplink



- 8 x Multi-Gigabit (100M/1G/2.5G) RJ-45 ports
- 2 x 1G SFP/10G SFP+ slots

## The Nebula ecosystem

Nebula supports a comprehensive range of products from switches, access points, security firewalls, to 5G/LTE mobile routers, bringing you an easy and unified network experience. The Nebula APP allows to onboard devices and glance at real time network status easily. You also can reboot the abnormal AP/IP CAM by power cycle, or even block clients with unusual traffic remotely even when you are away.

## Experience near silent operation

We offer both fanless and smart fan designs (XMG1915-18EP only) for XMG1915 Series. These switches are engineered to operate near silently, ensuring they seamlessly blend into any workspace without generating intrusive fan noises.

### XMG1915-10EP

8-port 2.5GbE Smart Managed PoE Switch with 2 SFP+ Uplink



- 8 x Multi-Gigabit (100M/1G/2.5G) RJ-45 PoE++ (60 W) ports
- 2 x 1G SFP/10G SFP+ slots
- PoE power budget: 130 W

### XMG1915-18EP

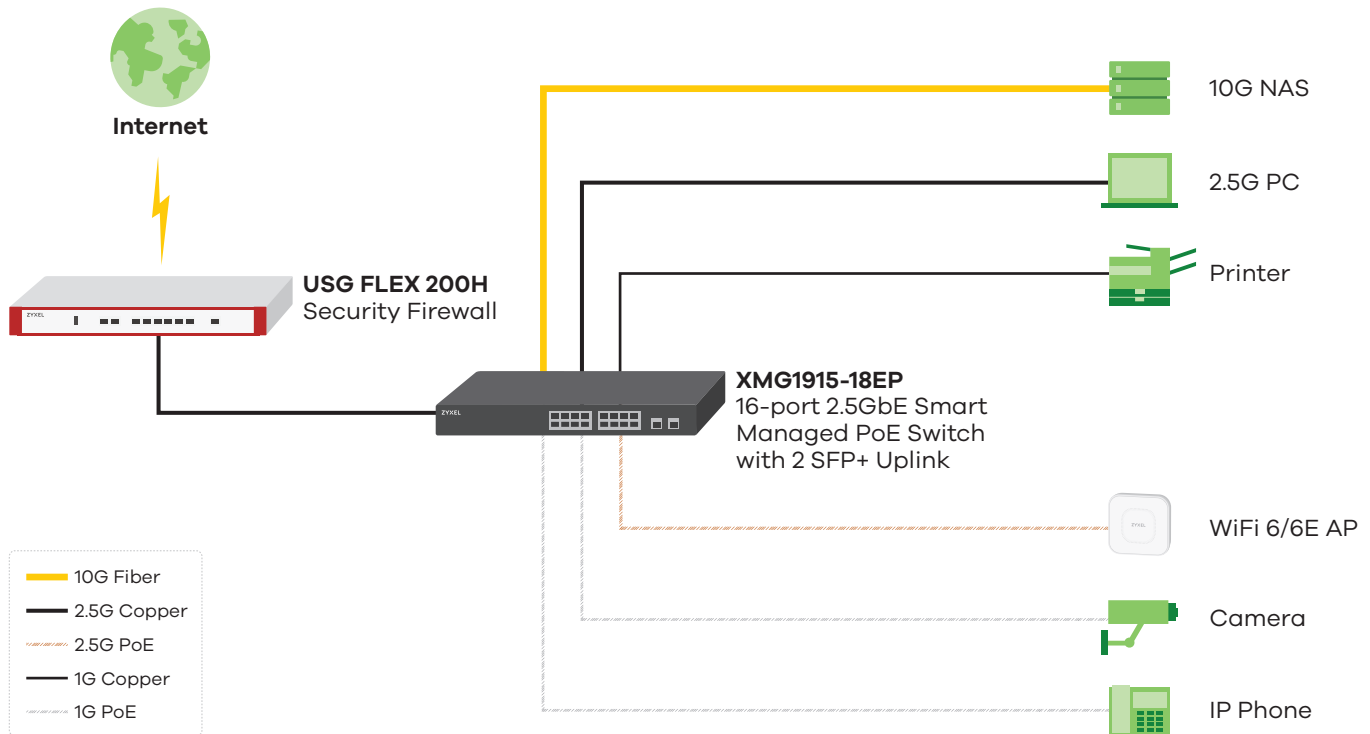
16-port 2.5GbE Smart Managed PoE Switch with 2 SFP+ Uplink



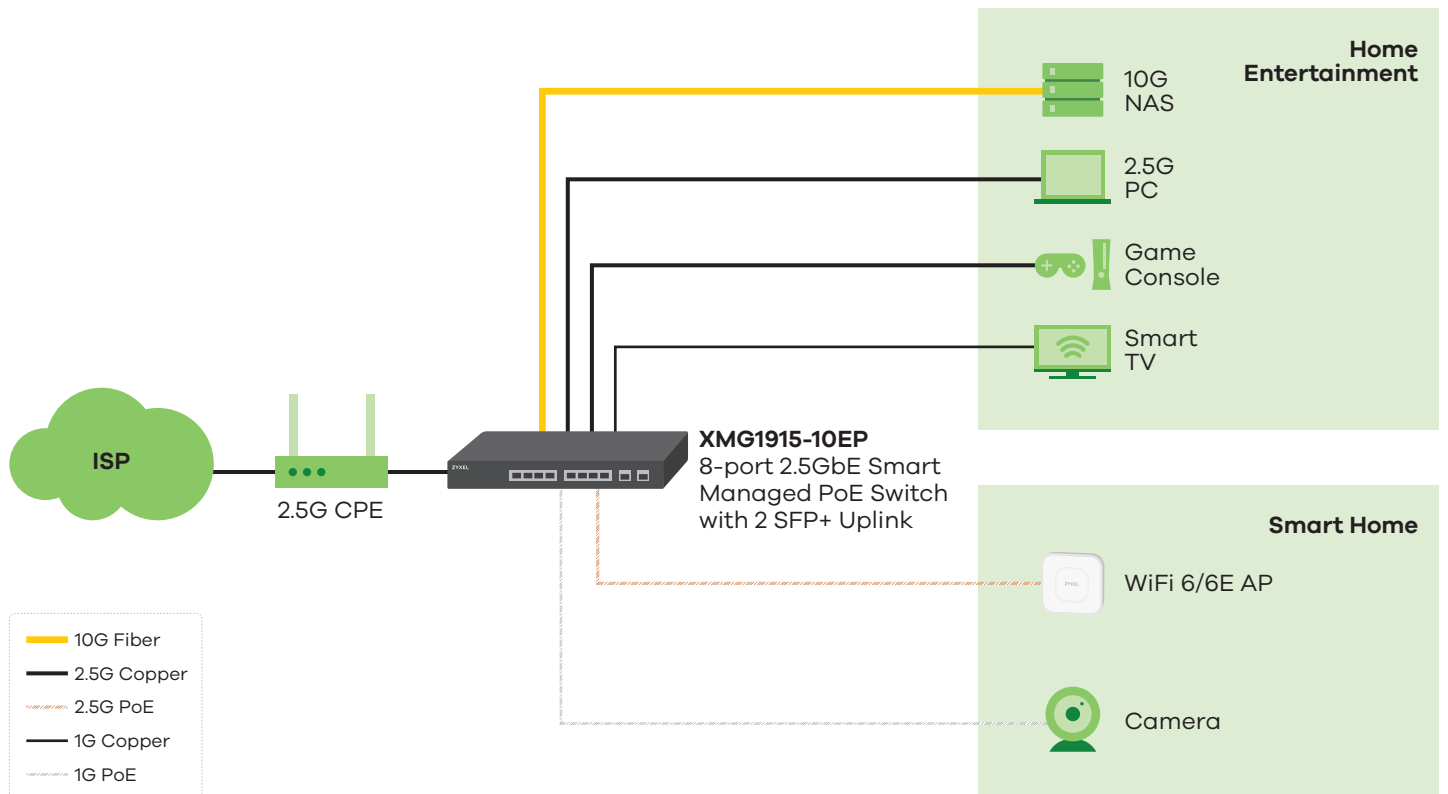
- 8 x Multi-Gigabit (100M/1G/2.5G) RJ-45 PoE++ (60 W) ports
- 8 x Multi-Gigabit (100M/1G/2.5G) RJ-45 ports
- 2 x 1G SFP/10G SFP+ slots
- PoE power budget: 180 W

# Application Diagram

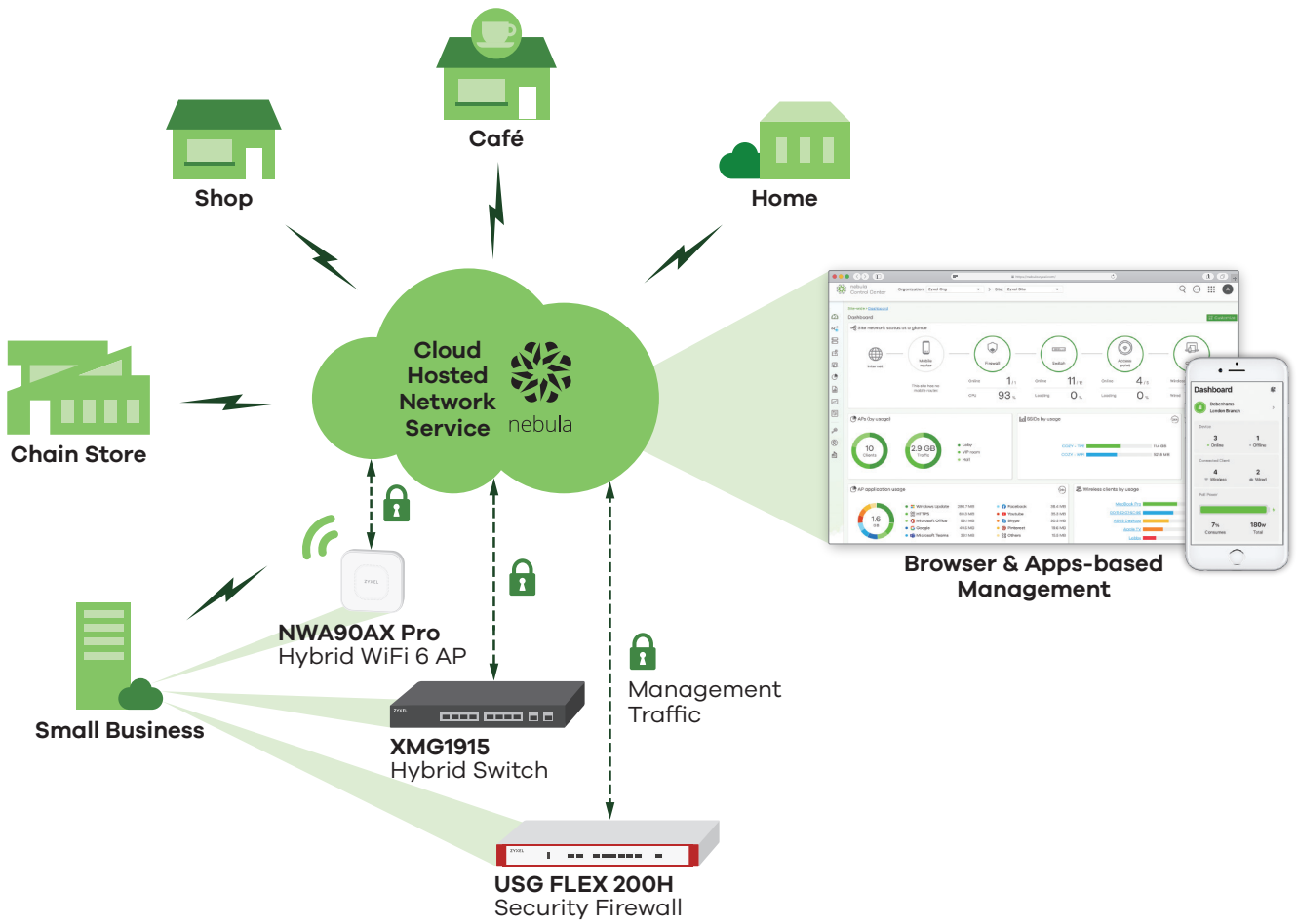
## For Small Office



## For Smart Home



# Cloud Management



## Specifications

| Model   |                                   | XMG1915-10E   | XMG1915-10EP  | XMG1915-18EP  |
|---|-----------------------------------|---|---|---|
| <b>Product name</b>   |                                   | 8-port 2.5GbE Smart Managed Switch with 2 SFP+ Uplink                                       | 8-port 2.5GbE Smart Managed PoE Switch with 2 SFP+ Uplink   | 16-port 2.5GbE Smart Managed PoE Switch with 2 SFP+ Uplink                                  |
| <b>Switch class</b>   |                                   | Smart Managed   | Smart Managed   | Smart Managed   |
| <b>Port Density</b>   |                                   |   |   |   |
| <b>Total port count</b>   |                                   | 10  | 10  | 18  |
| <b>100M/1G/2.5G Ethernet (RJ-45)</b>                                      |                                   | 8   | 8   | 16  |
| <b>1G SFP/10G SFP+</b>  |                                   | 2   | 2   | 2   |
| <b>PoE</b>  |                                   |   |   |   |
| <b>IEEE 802.3bt (PoE++, 60 W)</b>   |                                   | -   | 8   | 8   |
| <b>Total PoE budget (watts)</b>   |                                   | -   | 130   | 180   |
| <b>Performance</b>  |                                   |   |   |   |
| <b>Switching capacity (Gbps)</b>  |                                   | 80  | 80  | 120   |
| <b>Forwarding rate (Mpps)</b>   |                                   | 59.5  | 59.5  | 89.2  |
| <b>Packet buffer (byte)</b>   |                                   | 1.5 MB  | 1.5 MB  | 1.5 MB  |
| <b>MAC address table</b>  |                                   | 16 K  | 16 K  | 16 K  |
| <b>Jumbo frame (byte)</b>   |                                   | 12 K  | 12 K  | 12 K  |
| <b>L3 forwarding table</b>  |                                   | Max. 128 IPv4 entries;<br>Max. 128 IPv6 entries   | Max. 128 IPv4 entries;<br>Max. 128 IPv6 entries   | Max. 128 IPv4 entries;<br>Max. 128 IPv6 entries   |
| <b>Routing table</b>  |                                   | 8   | 8   | 8   |
| <b>VLAN routing</b>   |                                   | Yes   | Yes   | Yes   |
| <b>IP interface (IPv4/IPv6)</b>   |                                   | 8/8   | 8/8   | 8/8   |
| <b>Flash/RAM</b>  |                                   | 32 MB/256 MB  | 32 MB/256 MB  | 32 MB/256 MB  |
| <b>Power</b>  |                                   |   |   |   |
| <b>Input</b>  |                                   | 100 - 240 V AC, 50/60 Hz  | 100 - 240 V AC, 50/60 Hz  | 100 - 240 V AC, 50/60 Hz  |
| <b>Min. power consumption (watts)<br/>Without any port connection</b>     |                                   | 5.45  | 11.7  | 14.52   |
| <b>Max. power consumption (watts)<br/>All ports full load without PoE</b> |                                   | 14.49   | 33  | 46.5  |
| <b>Max. power consumption (watts)<br/>All ports full load with PoE</b>    |                                   | -   | 163   | 226.5   |
| <b>Physical Specifications</b>  |                                   |   |   |   |
| <b>Item</b>   | <b>Dimensions (WxDxH)(mm/in.)</b> | 250 x 104 x 27/<br>9.84 x 4.09 x 1.06   | 250 x 104 x 27/<br>9.84 x 4.09 x 1.06   | 330 x 230 x 44/<br>12.99 x 9.06 x 1.73  |
|   | <b>Weight (kg/lb.)</b>            | 0.76/1.68   | 0.78/1.72   | 2.6/5.73  |
| <b>Packing</b>  | <b>Dimensions (WxDxH)(mm/in.)</b> | 306 x 225 x 64/<br>12.05 x 8.86 x 2.52  | 297 x 248 x 64/<br>11.69 x 9.76 x 2.52  | 389 x 337 x 79/<br>15.31 x 13.27 x 3.11   |
|   | <b>Weight (kg/lb.)</b>            | 1.3/2.87  | 1.83/4.03   | 3.6/7.94  |
| <b>Included accessories</b>   |                                   | <ul style="list-style-type: none"> <li>• Power adapter</li> <li>• Wall mount kit</li> </ul> | <ul style="list-style-type: none"> <li>• Power cord</li> <li>• Power adapter</li> <li>• Wall mount kit</li> </ul> | <ul style="list-style-type: none"> <li>• Power cord</li> <li>• Rack mounting kit</li> </ul> |
| <b>Green Features</b>   |                                   |   |   |   |
| <b>Fanless</b>  |                                   | Yes   | Yes   | -   |
| <b>ESD/Surge Protection</b>   |                                   |   |   |   |
| <b>Ethernet port surge protection</b>                                     |                                   | 2 KV  | 2 KV  | 2 KV  |
| <b>Power supply surge protection</b>                                      | <b>Line-GND</b>                   | 2 KV  | 2 KV  | 2 KV  |
|   | <b>Line-Line</b>                  | 1 KV  | 1 KV  | 1 KV  |
| <b>Ethernet port ESD protection (air/contact)</b>                         |                                   | 8 KV/4 KV   | 8 KV/4 KV   | 8 KV/4 KV   |

| Environmental Specifications  |             |                              |                              |                              |
|-------------------------------|-------------|------------------------------|------------------------------|------------------------------|
| Operating                     | Temperature | 0°C to 40°C/32°F to 104°F    | 0°C to 40°C/32°F to 104°F    | 0°C to 40°C/32°F to 104°F    |
|                               | Humidity    | 5% to 95% (non-condensing)   | 5% to 95% (non-condensing)   | 5% to 95% (non-condensing)   |
| Storage                       | Temperature | -40°C to 70°C/-40°F to 158°F | -40°C to 70°C/-40°F to 158°F | -40°C to 70°C/-40°F to 158°F |
|                               | Humidity    | 5% to 95% (non-condensing)   | 5% to 95% (non-condensing)   | 5% to 95% (non-condensing)   |
| MTBF (hr)                     |             | 646,958                      | 394,499                      | 954,032                      |
| Heat dissipation (BTU/hr)     |             | 62.1                         | 575.18                       | 763.5                        |
| Acoustic noise (min/max, dBA) |             | 0                            | 0                            | 19.71/42                     |

## Features

### Standard Compliance

- IEEE 802.3z 1000BASE-X\*
- IEEE 802.3ab 1000BASE-T Ethernet\*
- IEEE 802.3bz 2.5GBASE-T/5GBASE-T\*
- IEEE 802.3ae 10 Gbit/s Ethernet over fiber\*
- IEEE 802.3af PoE\*
- IEEE 802.3at PoE plus\*
- IEEE 802.3bt (60 W) PoE over 4 pair\*
- IEEE 802.3x flow control
- IEEE 802.3az EEE support/Green Ethernet
- IEEE 802.1p Class of Service (CoS) prioritization\*

### Resilience and Availability

- IEEE 802.1D Spanning Tree Protocol (STP)\*
- IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)\*
- IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)
- IEEE 802.3ad LACP\* (Max # Trunks/ Links per Trunk): 5/8 (10E/10EP); 9/8 (18EP)
- Loop guard\*
- Dual configuration files
- Dual images\*

### Traffic Control

- 802.1Q Static VLANs\*/Dynamic VLANs: 1 K/4 K
- Port-based VLAN\*
- Voice VLAN\*
- VLAN trunking
- MAC-based VLAN
- Vendor ID based VLAN\*
- LACP algorithm of source/ destination IP

### Security

- Layer 2 MAC filtering
- Static MAC forwarding
- SSH v2
- SSL
- Port isolation\*
- Port security
- MAC freeze
- CPU protection
- SHA2 HTTPS Certification
- Login authentication by RADIUS
- RADIUS accounting
- Authorization on RADIUS
- Multiple RADIUS servers
- DHCP Snooping

### Quality of Service (QoS)

- No. of hardware queues per port: 8\*
- 802.1p queuing methods: SPQ, WRR, WFQ\*
- Storm control: broadcast, multicast, unknown unicast (DLF)\*
- Port-based rate limiting (ingress/ egress)
- DiffServ (DSCP)

### Layer 2 Multicast

- L2 multicast group: 1 K
- IGMP snooping (v1, v2, v3)\*
- Static L2 multicast forwarding

### Routing

- Static route

### Manageability

- SNMP v1, v2c, v3
- SNMP trap group
- RMON (1, 2, 3, 9)
- Syslog (IPv4/v6)\*
- IEEE 802.1AB LLDP
- IEEE 802.1AB LLDP-MED
- Custom default
- Display port utilization\*
- Support NebulaFlex™ for hybrid mode

### IPv6 Management

- IPv6 over Ethernet (RFC 2464)
- IPv6 addressing architecture (RFC 4291)
- Dual stack (RFC 4213)
- ICMPv6 (RFC 4884)
- Path MTU (RFC 1981)
- Minimum path MTU size of 1280 (RFC 5095)
- Encapsulation for maximum MTU of 1500
- Neighbor discovery (RFC 4861)
- DHCPv6 relay
- Default DHCP client mode\*
- Duplicated Address Detection (DAD)

## Device Management

- Standalone management by Web interface
  - Setup Wizard
- Cloud management by Nebula Control Center\*
- Auto configuration recovery (only for cloud mode)
- Management through Web, SNMP
- Firmware upgrade by FTP/Web
- Configuration saving and retrieving
- Multiple login supported
- Configure clone
- DHCP relay per VLAN
- DHCP client IPv4\*
- DHCP client IPv6
- Daylight saving\*
- NTP Server (IPv4/IPv6)
- Scheduled PoE\*
- PoE default consumption mode\*
- Restore to last custom default

## MIB

- Zyxel common MIB
- RFC 1066 TCP/IP-based MIB
- RFC 1213, 1157 SNMPv2c/v3 MIB
- RFC 1493 bridge MIB
- RFC 1643 Ethernet MIB
- RFC 1757 RMON Group 1, 2, 3, 9
- RFC 2011, 2012, 2013 SNMPv2 MIB
- RFC 2358 Ethernet-like MIB
- RFC 2674 bridge MIB extension
- RFC 2819, 2925 remote management MIB
- RFC 3621 power Ethernet MIB
- RFC 4022 management information base for transmission control protocol
- RFC 4113 management information base for user datagram protocol
- RFC 4292 IP forwarding table MIB
- RFC 4293 Management Information Base (MIB) for IP

## Certifications

- Safety
  - LVD
  - BSMI Safety
- EMC
  - FCC Part 15 (Class A)
  - CE EMC (Class A)
  - BSMI EMC
- RoHS

## Zyxel One Network

### ZON Utility\*

- Discovery of Zyxel switches, APs and gateways
- Centralized and batch configurations:
  - IP configuration
  - IP renew
  - Device factory reset
  - Device reboot
  - Device locating
  - Web GUI access
  - Password configuration
  - One-click quick association with Zyxel AP Configurator (ZAC)
- Automatic detection of the latest firmware
- Displays device serial number and hardware version
- Cloud mode on/off option for Hybrid series devices
- Intuitive Cloud connection status

### Smart Connect

- Discover neighboring devices
- One-click remote management access to the neighboring Zyxel devices
- Reset neighboring devices remotely to factory defaults
- Power cycle neighboring powered devices (PoE switches only)

## Warranty

- Limited life-time warranty\*\*

\* Nebula Cloud and Standalone modes supported features. Some Nebula features may need an extra license to work. For more details on the features and licenses, check [Nebula Licensing Table](#).

\*\* 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 |
|-------------------------|------------|-----------|----------------------------|------------------|------|
| <b>SFP10G-T*</b>        | 10 Gigabit | RJ-45     | -                          | 0.3 km (328 yd)  | -    |
| <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-D-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-D-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); 1490 nm (Rx) | 10 km (10936 yd) | Yes  |
| <b>SFP-BX1310-E</b>     | Gigabit    | Single LC | 1310 nm (Tx); 1550 nm (Rx) | 20 km (21872 yd) | Yes  |
| <b>SFP-BX1490-10-D</b>  | Gigabit    | Single LC | 1490 nm (Tx); 1310 nm (Rx) | 10 km (10936 yd) | Yes  |
| <b>SFP-BX1550-E</b>     | Gigabit    | Single LC | 1550 nm (Tx); 1310 nm (Rx) | 20 km (21872 yd) | Yes  |

\*Note: Connecting copper transceivers to your switches

1. Works with Cat6a/7 Cable up to 30 m. Please ensure the switch has proper ventilation to dissipate extra heat from the 10G BASE-T transceiver.
2. It is recommended to use no more than one 10GbE copper module simultaneously to avoid overheating and ensure reliable operation.
3. Ensure adequate spacing between connected 10GbE copper devices, and maintain sufficient airflow and cooling around the switch to optimize performance and longevity.

### Direct Attach Cables (Optional)

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

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

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