



## XMG1100-I Series

Industrial 4/8 port 2.5GbE PoE Unmanaged Switch with 10G Uplink

Designed for high-performance industrial networks, the Zyxel XMG1100-I unmanaged PoE switches, including the XMG1100-6P-I and XMG1100-9P-I, combine 2.5GbE PoE++ (90W) access ports with 10G SFP+ uplinks to support bandwidth-intensive applications and long-distance connectivity. Plug-and-play deployment simplifies installation, while industrial-grade reliability, fanless operation, and wide-temperature support ensure stable, maintenance-free performance in demanding environments such as factory automation, intelligent transportation, smart cities, and outdoor surveillance.

### Benefits

#### More bandwidth for data-intensive industrial applications

As factory automation brings more high-resolution cameras, sensors, and connected devices onto the network, bandwidth requirements continue to increase. 2.5GbE provides greater capacity for data-intensive devices at the edge, while 10G uplinks aggregate multiple data and video streams to help prevent uplink bottlenecks. This combination supports industrial applications that require higher bandwidth at the edge and faster connections to the network.



Rugged switch with future-ready 2.5GbE access and 10GbE uplink connectivity



All PoE ports support PoE++ 90W to power demanding high-power devices



Wide operating temperature ranges (-40°C ~ 75°C)



Redundant DC power inputs for high network resilience



Fanless design with IP50-rated protection for reliable in diverse environments

## Power more with PoE++ (90W)

The XMG1100-I Series is equipped with four or eight PoE++ (90W) ports, delivering both power and data through a single Ethernet cable for simplified deployment. With a total power budget of up to 240W or 480W and up to 90W per port, it easily powers high-consumption devices such as PTZ IP cameras, WiFi 7 access points, industrial IoT equipment, and other IEEE 802.3bt-powered devices. This eliminates the need for separate power supplies and additional cabling, reducing installation costs and complexity. Automatic PoE detection and classification further streamline deployment by identifying connected devices and supplying the appropriate power level without manual configuration.

## Built tough for challenging environments

The XMG1100-I Series features a rugged, durable design ideal for harsh environments such as outdoor, industrial, and remote locations. With a wide operating temperature range of -40°C to 75°C, it ensures stable and reliable performance under extreme conditions. Its metal enclosure is available with IP50-rated protection for varying levels of dust resistance, while the fanless design and high immunity to electromagnetic interference and electrical surges reduce downtime and enhance long-term reliability.

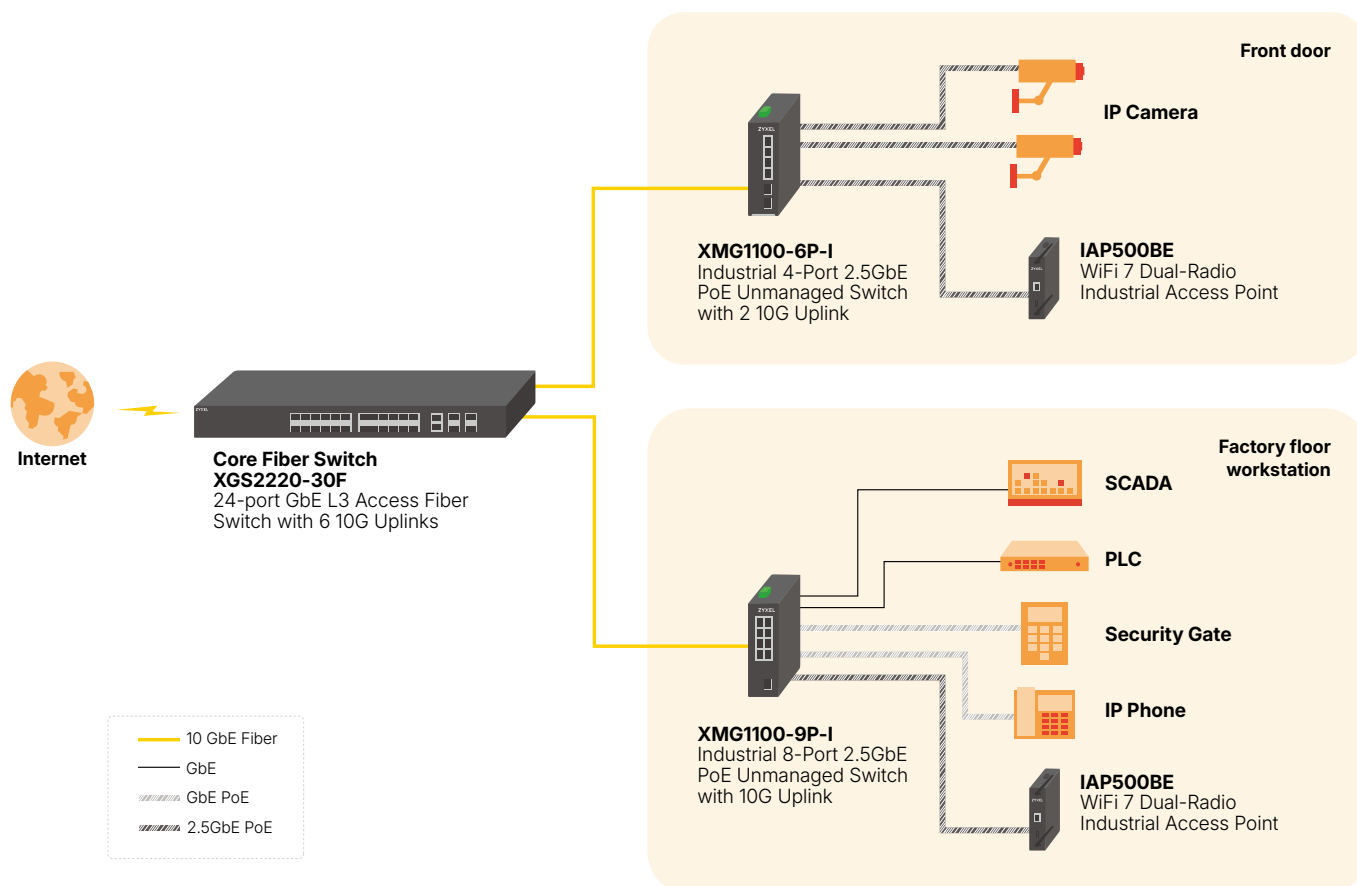
## Reliable power redundancy

The built-in redundant DC power inputs support both an external power adapter and terminal block connections, providing power redundancy to help maintain continuous operation if one power source fails. With a wide 54–57V DC input range, the switch supports multiple power sources, enabling flexible deployment in industrial environments.

## Flexible installation and easy expandability

The XMG1100-I Series is an unmanaged switch built for effortless network expansion in demanding environments. Its plug-and-play design reduces setup time and eliminates ongoing management complexity. Equipped with 10G SFP+ ports, it enables flexible, long-distance, and high-bandwidth fiber connectivity—ideal for linking remote sites, connecting buildings, or overcoming the limitations of copper cabling. With support for both wall and DIN-rail mounting, it offers versatile deployment even in space-constrained installations.

## Application Diagram



## Specifications

| Model                                                             |                            | XMG1100-6P-I                                                                                        | XMG1100-9P-I                                                                                        |
|-------------------------------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Product name                                                      |                            | Industrial 4-Port 2.5GbE PoE Unmanaged Switch with 2 10G Uplink                                     | Industrial 8-Port 2.5GbE PoE Unmanaged Switch with 10G Uplink                                       |
|                                                                   |                            |                    |                  |
| Switch class                                                      |                            | Unmanaged                                                                                           | Unmanaged                                                                                           |
| Port Density                                                      |                            |                                                                                                     |                                                                                                     |
| Total port count                                                  |                            | 6                                                                                                   | 9                                                                                                   |
| 100M/1G/2.5G Ethernet (RJ-45)                                     |                            | 4                                                                                                   | 8                                                                                                   |
| 10G SFP+                                                          |                            | 2                                                                                                   | 1                                                                                                   |
| PoE                                                               |                            |                                                                                                     |                                                                                                     |
| PoE ports                                                         |                            | 4                                                                                                   | 8                                                                                                   |
| Total PoE budget (watts)                                          |                            | 240                                                                                                 | 480                                                                                                 |
| IEEE 802.3bt (PoE++, 90W)                                         |                            | Port 1-4                                                                                            | Port 1-8                                                                                            |
| Performance                                                       |                            |                                                                                                     |                                                                                                     |
| Switching capacity (Gbps)                                         |                            | 60                                                                                                  | 60                                                                                                  |
| Forwarding rate (Mpps)                                            |                            | 44.64                                                                                               | 44.64                                                                                               |
| Packet buffer (byte)                                              |                            | 1MB                                                                                                 | 1MB                                                                                                 |
| MAC address table                                                 |                            | 4K                                                                                                  | 4K                                                                                                  |
| Jumbo frame (byte)                                                |                            | 12KB                                                                                                | 12KB                                                                                                |
| Power                                                             |                            |                                                                                                     |                                                                                                     |
| Input                                                             |                            | Dual power input 54V~57V DC                                                                         | Dual power input 54V~57V DC                                                                         |
| Min. power consumption (watts)<br>Without any port connection     |                            | 2.565                                                                                               | 3.648                                                                                               |
| Max. power consumption (watts)<br>All ports full load without PoE |                            | 7.467                                                                                               | 11.343                                                                                              |
| Max. power consumption (watts)<br>All ports full load with PoE    |                            | 254.22                                                                                              | 520.923                                                                                             |
| Physical Specifications                                           |                            |                                                                                                     |                                                                                                     |
| Item                                                              | Dimensions (WxDxH)(mm/in.) | 140 × 120 × 56 / 5.51 × 4.72 × 2.20                                                                 | 140 × 120 × 56 / 5.51 × 4.72 × 2.20                                                                 |
|                                                                   | Weight (kg/lb.)            | 1.002 / 2.21                                                                                        | 1.101 / 2.43                                                                                        |
| Packing                                                           | Dimensions (WxDxH)(mm/in.) | 202 × 189 × 64 / 7.95 × 7.44 × 2.52                                                                 | 202 × 189 × 64 / 7.95 × 7.44 × 2.52                                                                 |
|                                                                   | Weight (kg/lb.)            | 1.235 / 2.72                                                                                        | 1.334 / 2.94                                                                                        |
| Included accessories                                              |                            | <ul style="list-style-type: none"> <li>• Wall mount kit</li> <li>• DIN-rail mounting kit</li> </ul> | <ul style="list-style-type: none"> <li>• Wall mount kit</li> <li>• DIN-rail mounting kit</li> </ul> |

| Model                                |             | XMG1100-6P-I                   | XMG1100-9P-I                   |
|--------------------------------------|-------------|--------------------------------|--------------------------------|
| ESD/Surge Protections                |             |                                |                                |
| Ethernet port surge protection       |             | 6KV                            | 6KV                            |
| Power supply surge protection        | Line-GND    | 2KV                            | 2KV                            |
|                                      | Line-Line   | 2KV                            | 2KV                            |
| ESD protection (air/contact)         |             | 8KV/6KV                        | 8KV/6KV                        |
| Environmental Specifications         |             |                                |                                |
| Operating                            | Temperature | -40°C to 75°C / -40°F to 167°F | -40°C to 75°C / -40°F to 167°F |
|                                      | Humidity    | 10% to 95% (non-condensing)    | 10% to 95% (non-condensing)    |
| Storage                              | Temperature | -40°C to 85°C/-40°F to 185°F   | -40°C to 85°C/-40°F to 185°F   |
|                                      | Humidity    | 10% to 95% (non-condensing)    | 10% to 95% (non-condensing)    |
| MTBF (hr @ 25°C)                     |             | 1,715,094                      | 1,523,430                      |
| Heat dissipation (BTU/hr)            |             | 29.788                         | 51.557                         |
| Enclosure (IP) ratings               |             | IP50                           | IP50                           |
| Acoustic noise @ 25°C (min/max, dBA) |             | Fanless, 0                     | Fanless, 0                     |

| Software Features                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>L2 Features</b>                  | <ul style="list-style-type: none"> <li>• Jumbo frame support up to 12KB</li> <li>• Automatic MDI/MDIX support</li> <li>• Auto address learning</li> <li>• Non-blocking architecture — Wire speed throughput</li> <li>• Support power consumption mode</li> <li>• No power guard-band function</li> </ul>                                                                                                                                                                                                             |
| <b>Industrial Case/Installation</b> | <ul style="list-style-type: none"> <li>• Slim IP50 metal case protection</li> <li>• DIN rail and wall mount design</li> <li>• Dual terminal block DC redundant power input (XMG1100-10P-I only)</li> <li>• One DC external power adapter interface</li> <li>• Alarm relay output warning for power failure</li> <li>• Alarm relay contact rating: 2 A/24 VDC</li> <li>• Lightning surge protection</li> <li>• ESD protection</li> <li>• EFT protection</li> <li>• Wide-range operating temperature</li> </ul>        |
| <b>Standard Compliance</b>          | <ul style="list-style-type: none"> <li>• IEEE 802.3u 100BASE-TX Ethernet, IEEE 802.3ab 1000BASE-T Ethernet, IEEE 802.3bz 2.5GBASE-T/5GBASE-T, IEEE 802.3z 1000BASE-X, IEEE 802.3ae 10Gbit/s Ethernet over fiber</li> <li>• IEEE 802.3af PoE, IEEE 802.3at PoE+, IEEE 802.3bt (60W) PoE++ over 4 pair, IEEE 802.3bt (90W) PoE++ over 4 pair</li> <li>• Full-duplex and half duplex operation with IEEE 802.3x flow control and backpressure</li> <li>• Store and forward</li> <li>• N-way auto-negotiation</li> </ul> |
| <b>Certifications</b>               | <ul style="list-style-type: none"> <li>• Safety: EN IEC 62368-1:2020+A11:2020, BSMI</li> <li>• EMC (Class A): CE, FCC, RCM, ICES-003, BSMI</li> <li>• RoHS</li> <li>• REACH</li> </ul>                                                                                                                                                                                                                                                                                                                               |

## Accessories

### Transceivers (Optional)

| Model                | Speed           | Connector | Wavelength                 | Max. Distance                       | DDMI |
|----------------------|-----------------|-----------|----------------------------|-------------------------------------|------|
| <b>SFP10G-T</b>      | 10-Gigabit SFP+ | RJ-45     | -                          | 0.03km (32.8yd)*<br>0.1km (109yd)** | Yes  |
| <b>SFP10G-SR</b>     | 10-Gigabit SFP+ | Duplex LC | 850 nm                     | 0.3km (328yd)                       | Yes  |
| <b>SFP10G-SR-E</b>   | 10-Gigabit SFP+ | Duplex LC | 850 nm                     | 0.3km (328yd)                       | Yes  |
| <b>SFP10G-LR</b>     | 10-Gigabit SFP+ | Duplex LC | 1310 nm                    | 10km (10936yd)                      | Yes  |
| <b>SFP10G-LR-E</b>   | 10-Gigabit SFP+ | Duplex LC | 1310 nm                    | 10km (10936yd)                      | 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-BX1310-E</b>  | Gigabit         | Single LC | 1310 nm (Tx); 1550 nm (Rx) | 20 km (21872 yd)                    | Yes  |
| <b>SFP-BX1550-E</b>  | Gigabit         | Single LC | 1310 nm (Tx); 1550 nm (Rx) | 20 km (21872 yd)                    | Yes  |

\* For SFP10G-T-ZZ0101F

\*\* For SFP10G-T-ZZ0102F

### Direct Attach Cables (Optional)

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

### Ordering Information

| Model               | EAN           | PN                   |
|---------------------|---------------|----------------------|
| <b>XMG1100-6P-I</b> | 4718937656783 | XMG1100-6P-I-ZZAM01F |
| <b>XMG1100-9P-I</b> | 4718937656790 | XMG1100-9P-I-ZZAM01F |

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

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29/09/26