



GS1100-I Series

Industrial 5/8 port GbE PoE Unmanaged Switch with GbE Uplink

Industrial PoE switches are essential in modern automation, supporting machine control systems with both power and connectivity. The Zyxel GS1100-I switches, including the GS1100-6P-I and GS1100-10P-I, provide dependable Ethernet and PoE to critical devices such as IP cameras, sensors, controllers, IoT devices, and actuators. Built for harsh environments, they ensure stable, uninterrupted performance while simplifying deployment with plug-and-play convenience—bridging the gap between enterprise-grade capability and industrial reliability without added complexity.

Benefits

Reliable Gigabit connectivity for industrial applications

For industrial applications where reliable connectivity is more important than higher bandwidth, Gigabit Ethernet provides a practical and cost-effective solution. It delivers dependable network performance for factory automation and other industrial applications, making it easy to connect and expand networks across the factory floor.



Rugged switch with Gigabit and plug-and-play connectivity



All PoE ports support PoE+ to power everyday IP devices



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



Three DC power inputs for high network resilience



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

Full PoE+ power budget

The GS1100-I Series is equipped with four or eight PoE+ ports, delivering both power and data through a single Ethernet cable for streamlined deployment. With a total power budget of up to 120W or 240W and up to 30W per port, it efficiently supports a wide range of PoE devices. This eliminates the need for additional power sources and cabling, reducing installation complexity and cost. Automatic PoE detection and classification further simplify deployment by identifying connected devices and delivering the appropriate power level without manual configuration.

Built tough for challenging environments

The GS1100-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.

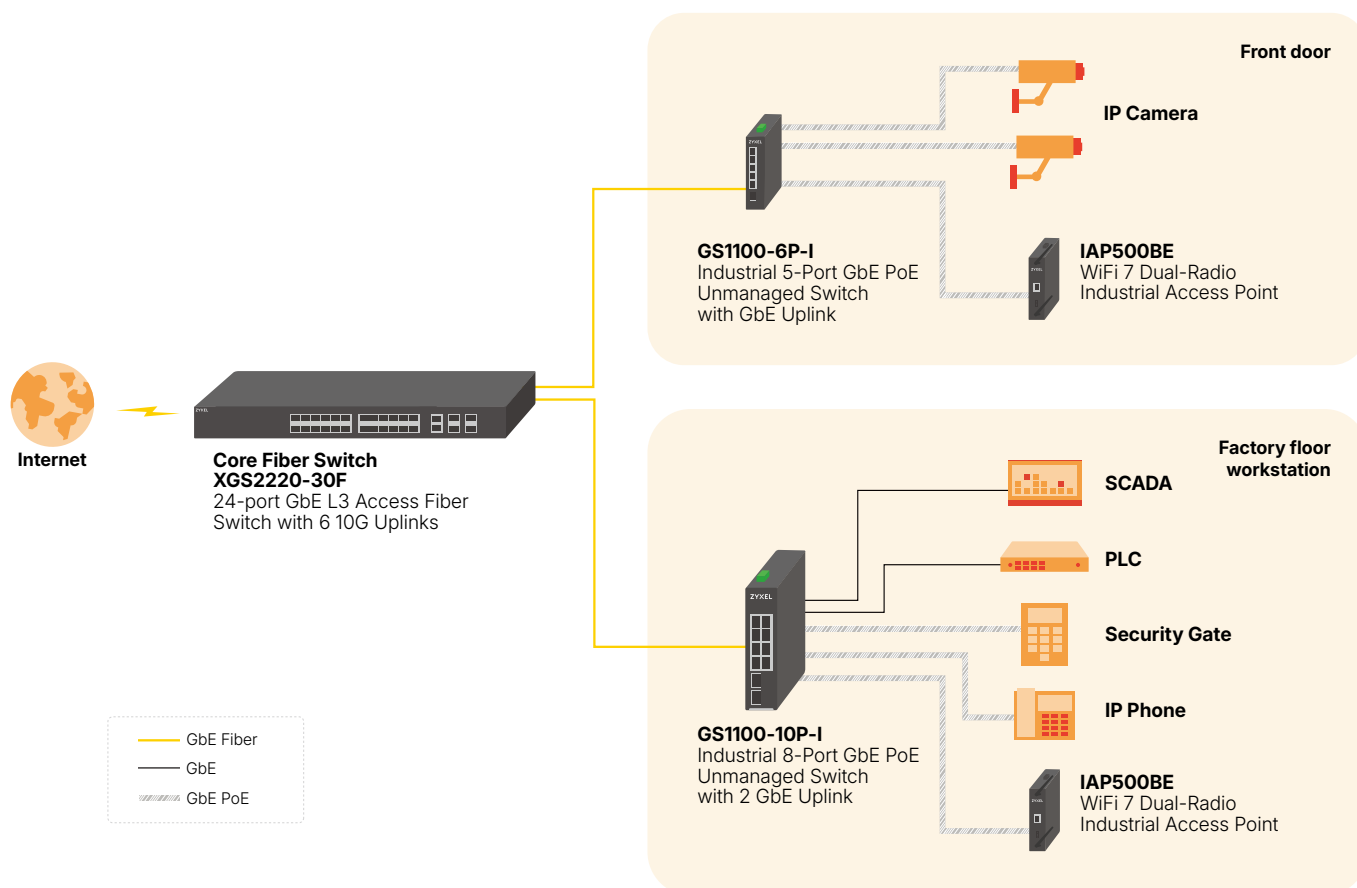
Reliable power redundancy

The built-in three DC power inputs—including one external power adapter input and two terminal block inputs—provide 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 GS1100-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 SFP ports, it enables flexible, long-distance 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		GS1100-6P-I	GS1100-10P-I
Product name		Industrial 5-Port GbE PoE Unmanaged Switch with GbE Uplink	Industrial 8-Port GbE PoE Unmanaged Switch with 2 GbE Uplink
			
Switch class		Unmanaged	Unmanaged
Port Density			
Total port count		6	10
100M/1G Ethernet (RJ-45)		5	8
1G SFP		1	2
PoE			
PoE ports		4	8
Total PoE budget (watts)		120	240
IEEE 802.3at PoE+		Port 1-4	Port 1-8
Performance			
Switching capacity (Gbps)		12	20
Forwarding rate (Mpps)		8.92	14.88
Packet buffer (byte)		256K	192K
MAC address table		2K	4K
Jumbo frame (byte)		9KB	9KB
Power			
Input		Power input 54V~57V DC	Power input 54V~57V DC
Min. power consumption (watts) Without any port connection		1.585	2.052
Max. power consumption (watts) All ports full load without PoE		4.104	3.996
Max. power consumption (watts) All ports full load with PoE		133.665	244.08
Physical Specifications			
Item	Dimensions (WxDxH)(mm/in.)	127 × 101 × 39 / 5 × 3.98 × 1.54	210 × 160 × 51 / 8.27 × 6.3 × 2.01
	Weight (kg/lb.)	0.555 / 1.22	1.099 / 2.42
Packing	Dimensions (WxDxH)(mm/in.)	151 × 172 × 45 / 5.94 × 6.77 × 1.77	260 × 232 × 69 / 10.24 × 9.13 × 2.72
	Weight (kg/lb.)	0.694 / 1.53	1.486 / 3.28
Included accessories		• Wall mount kit • DIN-rail mounting kit	• Wall mount kit • DIN-rail mounting kit • Terminal block

Model		GS1100-6P-I	GS1100-10P-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)		1,997,835	1,607,640
Heat dissipation (BTU/hr)		18.084	24.875
Enclosure (IP) ratings		IP50	IP50
Acoustic noise @ 25°C (min/max, dBA)		Fanless, 0	Fanless, 0

Software Features	
L2 Features	• Jumbo frame support up to 9KB • Automatic MDI/MDIX support • Auto address learning • Non-blocking architecture — Wire speed throughput • Support power consumption mode • No power guard-band function
Industrial Case/Installation	• Slim IP50 metal case protection • DIN rail and wall mount design • Dual terminal block DC redundant power input • One DC external power adapter interface • Alarm relay output warning for power failure • Alarm relay contact rating: 2 A/24 VDC • Lightning surge protection • ESD protection • EFT protection • Wide-range operating temperature
Standard Compliance	• IEEE 802.3 10BASE-T Ethernet, IEEE 802.3u 100BASE-TX Ethernet, IEEE 802.3ab 1000BASE-T Ethernet, IEEE 802.3z 1000BASE-X • IEEE 802.3af PoE, IEEE 802.3at PoE+ • Full-duplex and half-duplex operation with IEEE 802.3x flow control and backpressure • Store and forward • N-way auto-negotiation
Certifications	• Safety: EN IEC 62368-1:2020+A11:2020, BSMI • EMC (Class A): CE, FCC, RCM, ICES-003, BSMI • RoHS • REACH

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-D-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-D-E	Gigabit	Duplex LC	1310 nm	10 km (10936 yd)	Yes
SFP-BX1310-E	Gigabit	Single LC	1310 nm (Tx); 1550 nm (Rx)	20 km (21872 yd)	Yes
SFP-BX1550-E	Gigabit	Single LC	1550 nm (Tx); 1310 nm (Rx)	20 km (21872 yd)	Yes

Ordering Information

Model	EAN	PN
GS1100-6P-I	4718937656776	GS1100-6P-I-ZZAM01F
GS1100-10P-I	4718937656769	GS1100-10P-I-ZZAM01F

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