

ZYXEL

Your Networking Ally



The Freedom to Do More

PoE Switching
Solution Brief



Zyxelone network
Redefining network integration

Why Zyxel PoE switches?

As demands for connection from networking devices such as IP phones, IP cameras and access points increase, deployment complexity and cost rise as well. For less cable usage and investment, Power over Ethernet (PoE) technology provides both data connection and electrical power to devices through just one cable.

To fulfill various applications and flexible network deployments in different sectors, Zyxel offers a complete portfolio including a wide range of Unmanaged, Smart Managed, and Managed PoE switches that

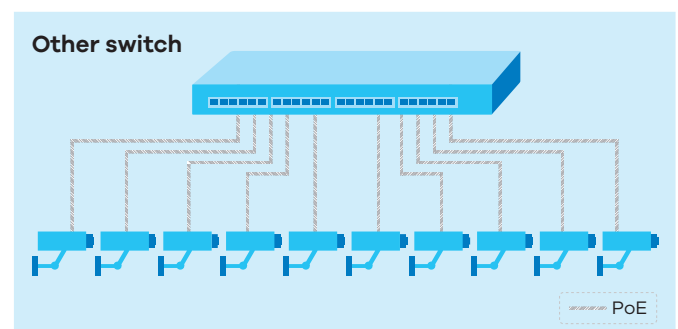
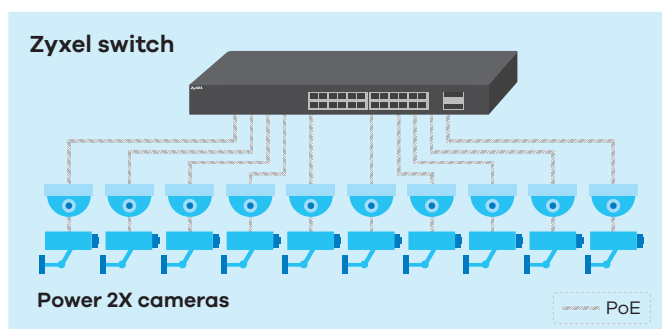
accommodate Power Devices (PD) without limitation thanks to the IEEE 802.3af and 802.3at standard support.

Zyxel PoE switches offer high PoE power budget that is almost double which of the competitors, and they support the 802.3at standard to easily fulfill power-hungry PD requirement such as Dome camera, pan-tilt-zoom (PTZ) camera and the latest 802.11ac AP. Additionally, the Zyxel PoE switches are made with high-quality components to ensure stability and durable connectivity essential to PoE applications such as IP surveillance and more.

Power More Devices than Others

Zyxel PoE switches support the IEEE 802.3af PoE and 802.3at PoE Plus standards that provide up to 30 watts of power per port for advanced Powered Devices (PD) like 802.11ac wireless APs and video IP phones. Apart

from this, Zyxel 8- and 24-port PoE switches offers higher PoE power budget than others for more flexible PoE deployment.



Reduce Infrastructure and Installation Costs

Zyxel PoE switches support IEEE 802.3af and IEEE 802.3at standards so users can deploy normal or high-power PDs flexibly without additional settings. Zyxel PoE switches provide complete portfolio from 5 to 48 ports and allow connections for both 15.4-watt IEEE 802.3af devices and 30-watt IEEE 802.3at devices without power-socket restriction to provide high-speed transmissions at the same time.

Save Energy, and Save Money

The intelligent PoE technology enables more efficient use of power resources to deliver better ROI for businesses. In the Consumption Mode, the PoE switch automatically detects power consumption status of each PD and supplies only the required amount of power. This intelligent power allocation function minimizes the waste of power and helps businesses to save money while enabling the PoE switch to power more PDs. Zyxel smart and managed PoE switches feature PoE scheduling to supply power to devices only during working hours, saving energy and money while preventing improper use of business network resources.

Reliable Network Connectivity

Zyxel PoE switches can monitor individual and total power consumption levels and set power supply policies that maximize service availability. Users can prioritize ports to guarantee uninterrupted services to high priority PDs in time of power usage exceeding the power budget limit. The Zyxel PoE switch is capable of adjusting switch power classification based on the power budget PD needs to function properly. This ensures stable and reliable PoE network and extends PD's usability.

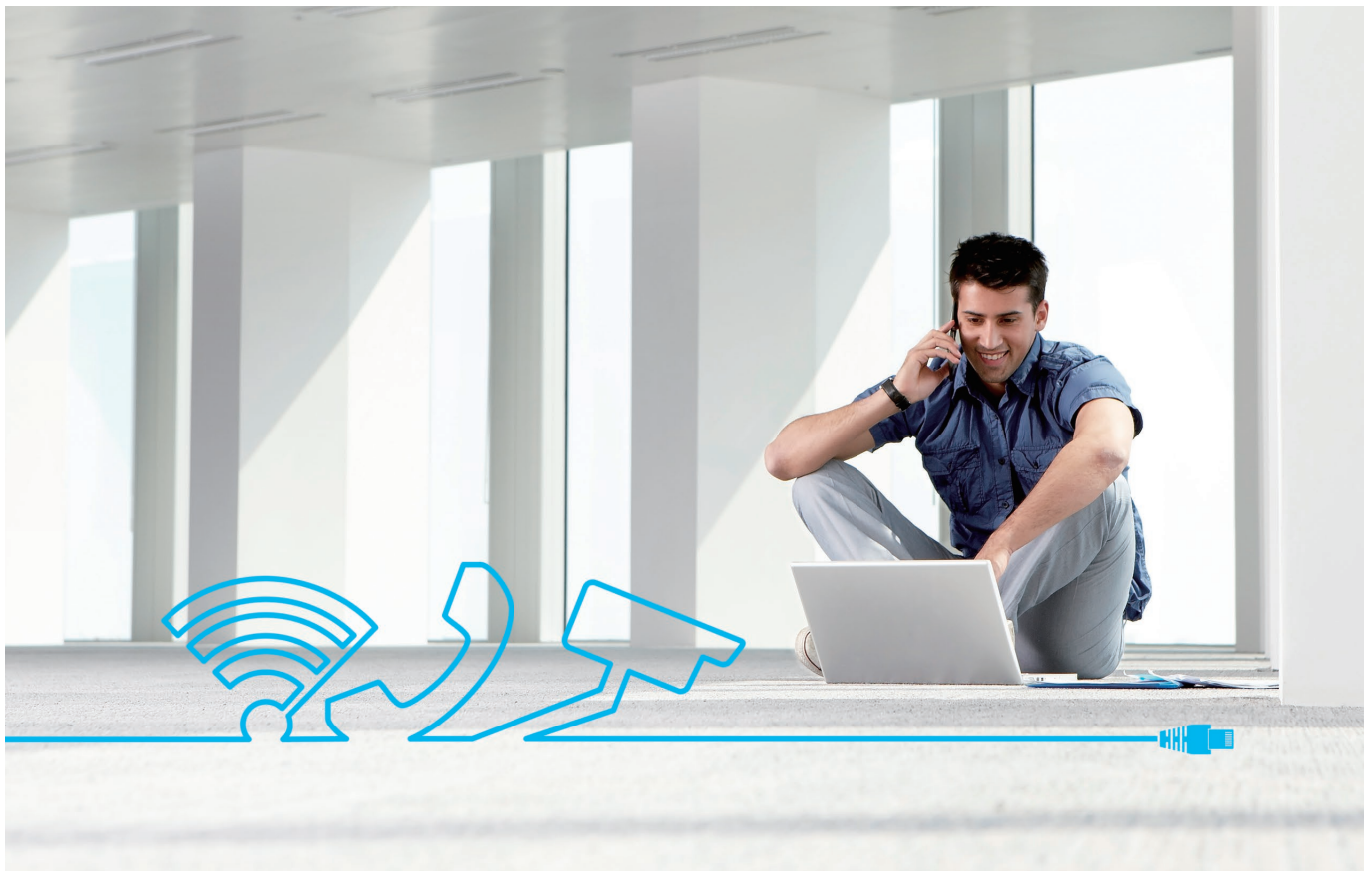
Centralized Control

Zyxel's PoE solution makes it easy for different sectors to deploy powered devices like VoIP phones, wireless APs and IP surveillance cameras in challenging places like ceilings, walls, outdoors, or wherever electrical outlets are not easily available. In addition, the neighboring features of Zyxel One Network can detect ports used by a neighboring device and display its IP information on the Web GUI of Zyxel PoE Switch to allow one-click remote control access via that IP. For example, if there's a connected PD fails to operate, users can reset PD to default setting or power cycle it remotely. This is a significant tool to save traveling costs in times of troubleshooting failure PD in the field.

Experience Whisper-Silent Operation

The new hybrid switches GS1920v2 and XGS1930 series have been designed with smart fan technology to automatically adjust fan speed based on the switch's

system temperature. This allows the switch to minimize the acoustic noise and offer a whisper-silent operation in office or SOHO environment.

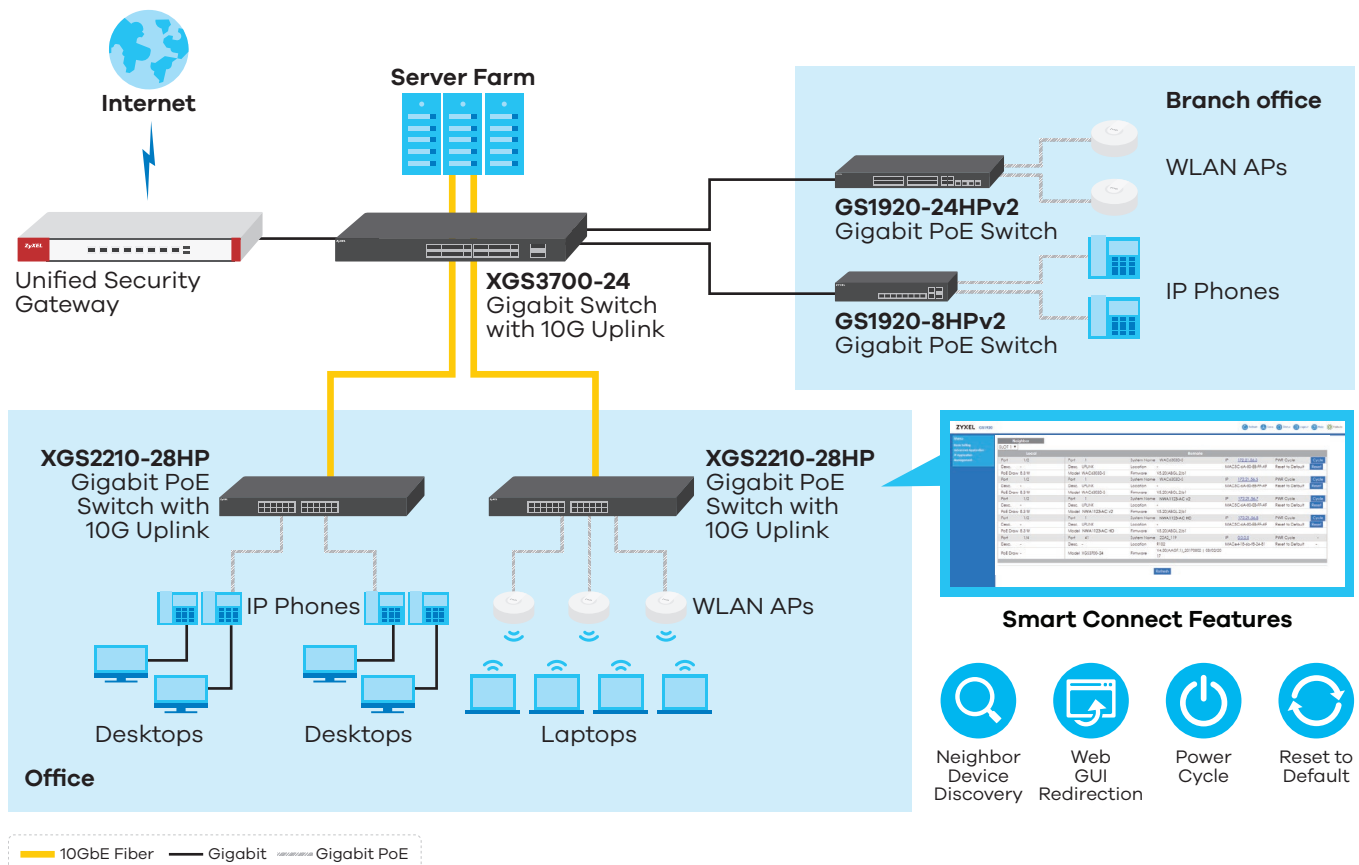


Zyxel One Network Experience

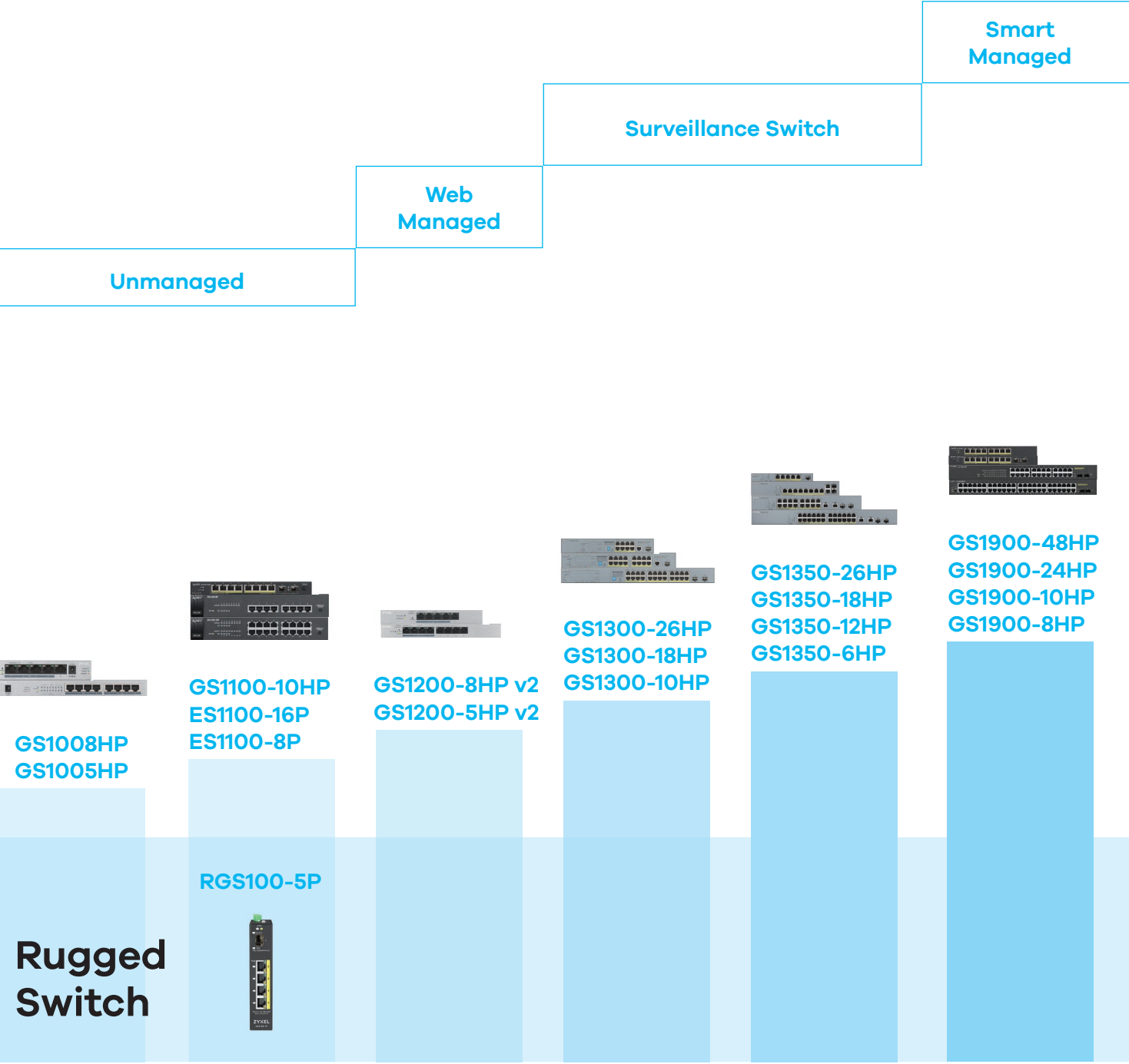
Aiming for relieving our customers from repetitive operations of deploying and managing a network, Zyxel One Network is designed to simplify the configuration, management, and troubleshooting, allowing our customers to focus on the business priorities. Zyxel One Network presents an easy-to-use tool, Zyxel One Network Utility (ZON Utility), to realize speed network setup. Zyxel Smart Connect allows Zyxel networking equipment to be aware and recognize each other and

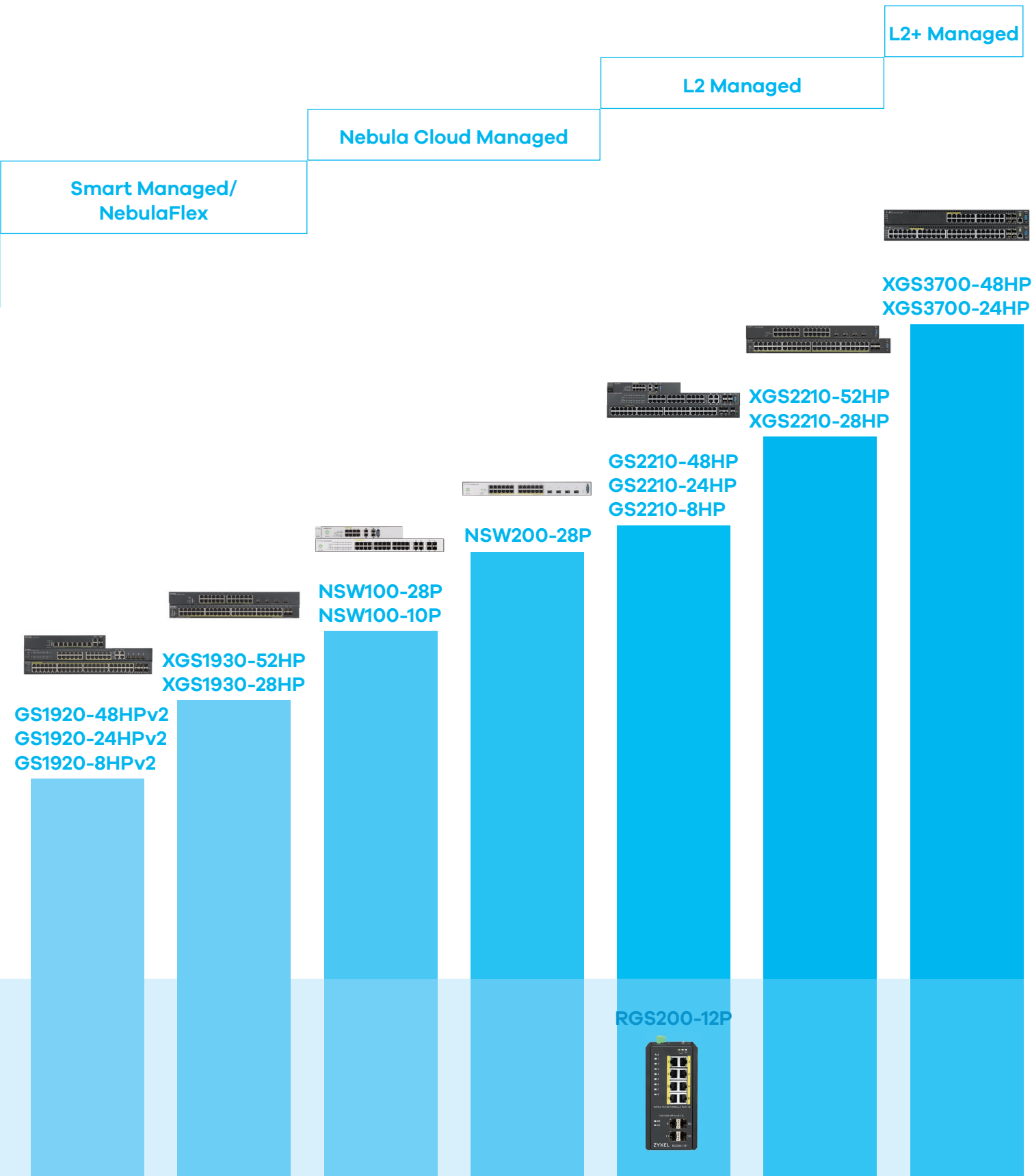
further facilitating the network maintenance via one-click remote functions such as factory reset or power cycling. Zyxel One Network redefines the network integration across multiple networking products from switch to WiFi AP and to Gateway.

Zyxel even opens up its One Network protocols to third-party developers to help them delivering more integrated, easy-to-deploy network applications.



PoE Switches Portfolio





PoE Switches Feature Matrix

Type	Layer 2+ Managed		Layer 2 Managed		
Model	XGS3700-24HP	XGS3700-48HP	XGS2210-28HP	XGS2210-52HP	GS2210-8HP
PoE					
PoE ports	24	48	24	48	8
Total PoE power budget (watt)	Single PSU: 460 Dual PSU: 1000	Single PSU: 460 Dual PSU: 1000	375	375	180
High Power PoE+	Yes	Yes	Yes	Yes	Yes
PoE scheduling	Yes	Yes	Yes	Yes	Yes
Ports					
Gigabit combo (RJ-45/SFP)	-	-	-	-	2
Gigabit SFP	-	-	-	-	-
10-Gigabit SFP+	4	4	4	4	-
Physical					
Fanless	-	-	-	-	-
Management					
Web GUI	Yes	Yes	Yes	Yes	Yes
Full Command Line Interface (CLI)	Yes	Yes	Yes	Yes	Yes
SNMP/Syslog	Yes	Yes	Yes	Yes	Yes
CNC Support	Yes	Yes	Yes	Yes	Yes
Zyxel One Network (ZON Utility, Smart Connect)	Yes	Yes	Yes	Yes	Yes
Zyxel Nebula (Cloud)	-	-	-	-	-

Type	Layer 2 Managed		Smart Management/NebulaFlex		
Model	GS2210-24HP	GS2210-48HP	XGS1930-28HP	XGS1930-52HP	GS1920-8HPv2
PoE					
PoE ports	24	48	24	48	8
Total PoE power budget (watt)	375	375	375	375	130
High Power PoE+	Yes	Yes	Yes	Yes	Yes
PoE scheduling	Yes	Yes	Yes	Yes	Yes
Ports					
Gigabit combo (RJ-45/SFP)	4	4	-	-	2
Gigabit SFP	-	2	-	-	-
10-Gigabit SFP+	-	-	4	4	-
Physical					
Fanless	-	-	-	-	Yes
Management					
Web GUI	Yes	Yes	Yes	Yes	Yes
Full Command Line Interface (CLI)	Yes	Yes	-	-	-
SNMP/Syslog	Yes	Yes	Yes	Yes	Yes
CNC Support	Yes	Yes	Yes	Yes	Yes
Zyxel One Network (ZON Utility, Smart Connect)	Yes	Yes	Yes	Yes	Yes
Zyxel Nebula (Cloud)	-	-	Yes	Yes	Yes

Type	Smart Management/NebulaFlex		Nebula Cloud Management		
Model	GS1920-24HPv2	GS1920-48HPv2	NSW100-10P	NSW100-28P	NSW200-28P
PoE					
PoE ports	24	48	8	24	24
Total PoE power budget (watt)	375	375	180	375	375
High Power PoE+	Yes	Yes	Yes	Yes	Yes
PoE scheduling	Yes	Yes	Yes	Yes	Yes
Ports					
Gigabit combo (RJ-45/SFP)	4	4	2	4	-
Gigabit SFP	-	2	-	-	-
10-Gigabit SFP+	-	-	-	-	4
Physical					
Fanless	-	-	-	-	-
Management					
Web GUI	Yes	Yes	-	-	-
Full Command Line Interface (CLI)	-	-	-	-	-
SNMP/Syslog	Yes	Yes	Yes	Yes	Yes
CNC Support	Yes	Yes	-	-	-
Zyxel One Network (ZON Utility, Smart Connect)	Yes	Yes	Yes	Yes	Yes
Zyxel Nebula (Cloud)	Yes	Yes	Yes	Yes	Yes

Type	Smart Management				Surveillance Managed
Model	GS1900-8HP	GS1900-10HP	GS1900-24HP	GS1900-48HP	GS1350-6HP
PoE					
PoE ports	8	8	24	24	5
Total PoE power budget (watt)	70	77	170	170	60
High Power PoE+	Yes	Yes	Yes	Yes	Yes PoE++ (port 1-2)
PoE scheduling	Yes	Yes	Yes	Yes	Yes
Ports					
Gigabit combo (RJ-45/SFP)	-	-	-	-	-
Gigabit SFP	-	2	2	2	1
10-Gigabit SFP+	-	-	-	-	-
Physical					
Fanless	Yes	Yes	-	-	Yes
Management					
Web GUI	Yes	Yes	Yes	Yes	Yes
Full Command Line Interface (CLI)	-	-	-	-	Yes*
SNMP/Syslog	Yes	Yes	Yes	Yes	-
CNC Support	Yes	Yes	Yes	Yes	Yes
Zyxel One Network (ZON Utility, Smart Connect)	Yes	Yes	Yes	Yes	Yes
Zyxel Nebula (Cloud)	-	-	-	-	-

* Via Telnet/SSHv2

Type	Surveillance Managed			Surveillance Unmanaged	
Model	GS1350-12HP	GS1350-18HP	GS1350-26HP	GS1300-10HP	GS1300-18HP
PoE					
PoE ports	8	16	24	8	16
Total PoE power budget (watt)	130	250	375	130	170
High Power PoE+	Yes	Yes	Yes	Yes	Yes
PoE scheduling	Yes	Yes	Yes	-	-
Ports					
Gigabit combo (RJ-45/SFP)	-	2	2	-	-
Gigabit SFP	2	-	-	1	1
10-Gigabit SFP+	-	-	-	-	-
Physical					
Fanless	-	-	-	-	-
Management					
Web GUI	Yes	Yes	Yes	-	-
Full Command Line Interface (CLI)	Yes*	Yes*	Yes*	-	-
SNMP/Syslog	-	-	-	-	-
CNC Support	Yes	Yes	Yes	-	-
Zyxel One Network (ZON Utility, Smart Connect)	Yes	Yes	Yes	-	-
Zyxel Nebula (Cloud)	-	-	-	-	-

* Via Telnet/SSHv2

Type	Surveillance Unmanaged	SOHO Web Management		Unmanaged	
Model	GS1300-26HP	GS1200-5HP v2	GS1200-8HP v2	GS1100-10HP	ES1100-8P
PoE					
PoE ports	24	4	4	8	4 (10/100 Mbps)
Total PoE power budget (watt)	250	60	60	130	64
High Power PoE+	Yes	Yes	Yes	Yes	-
PoE scheduling	-	-	-	-	-
Ports					
Gigabit combo (RJ-45/SFP)	-	-	-	-	-
Gigabit SFP	2	-	-	2	-
10-Gigabit SFP+	-	-	-	-	-
Physical					
Fanless	-	Yes	Yes	Yes	Yes
Management					
Web GUI	-	Yes	Yes	-	-
Full Command Line Interface (CLI)	-	-	-	-	-
SNMP/Syslog	-	-	-	-	-
CNC Support	-	-	-	-	-
Zyxel One Network (ZON Utility, Smart Connect)	-	-	-	-	-
Zyxel Nebula (Cloud)	-	-	-	-	-

Type	Unmanaged			Rugged	
Model	ES1100-16P	GS1005HP	GS1008HP	RGS100-5P	RGS200-12P
PoE					
PoE ports	8 (10/100 Mbps)	4	8	4	8
Total PoE power budget (watt)	130	60	60	120	240
High Power PoE+	-	Yes	Yes	Yes	Yes
PoE scheduling	-	-	-	-	Yes
Ports					
Gigabit combo (RJ-45/SFP)	-	-	-	-	-
Gigabit SFP	-	-	-	1	4
10-Gigabit SFP+	-	-	-	-	-
Physical					
Fanless	-	Yes	Yes	Yes	Yes
Management					
Web GUI	-	-	-	-	Yes
Full Command Line Interface (CLI)	-	-	-	-	Yes
SNMP/Syslog	-	-	-	-	Yes
CNC Support	-	-	-	-	Yes
Zyxel One Network (ZON Utility, Smart Connect)	-	-	-	-	-
Zyxel Nebula (Cloud)	-	-	-	-	-



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