





# **GS1915 Series** 8/24-port GbE Smart Managed Switch

The Zyxel GS1915 Series offers 8/24-port GbE Smart Managed Switches with and without PoE connectivity to small business network. The GS1915 Series supports NebulaFlex that comes with handy features and superior performance. This series is the most affordable hybrid switch solution for SB/ SMB market. It can be easily setup through Nebula Control Center for cloud based unified management, or with its friendly Web GUI if you still prefer local setting.

### **Benefits**

### Simple, affordable way to go cloud

Nebula provides both intuitive web interface and mobile APP to deliver a streamlined experience for installation and management of the network, without the additional cost for a software or hardware controller. Pro-users, small businesses, and chain stores can take advantage of Nebula to access real-time network information and enjoy centrally managed control over the GS1915 Smart Managed switches along with access points and security gateways. GS1915 series switch can satisfy requirements for a wide range of users; for Prosumers, it is able to ensure the quality connectivity for growing home IOT devices, for small business users, it can provide a sturdy network performance for daily operation, for chain store adoptions, it can manage and maintain multiple stores, all while carrying the flexibility to expand networking solution for new store locations instantly.



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 with flexible PoE budget of both 60 W (8EP) and 130 W (24EP) with all PoE ports supporting IEEE 802.3at PoE+



Immediately check the Switch status by cloud indicator



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



### NebulaFlex - simply manage it your way!

The GS1915 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.

#### 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.

### Compact size, silent operation

The GS1915 Series comes with desktop dimensions, fanless design, and smart fan design (GS1915-24EP only). These slim and near-silent switches can perfectly blend into any working environment without intrusive fan noises.

#### Intelligence to power more devices

All PoE ports of GS1915-8EP and GS1915-24EP support IEEE 802.3at for maximum deployment of modern PoE devices. Each port provides up to 30 W with a total of 60 W and 130 W power budget, ideal for setups that just needs a few more APs and cameras for a small business. Both PoE models feature a default PoE consumption mode that delivers the actual power required by your networked devices, reserves the rest to optimize its power budget, allowing the switch to power more devices, and ensures a better ROI for your business.

### **Model List**

#### GS1915-8

8-port GbE Smart Managed Switch

• 8 x GbE RJ-45 ports

### GS1915-24E

24-port GbE Smart Managed Switch



• 24 x GbE RJ-45 ports

### **GS1915-8EP** 8-port GbE Smart Managed PoE Switch



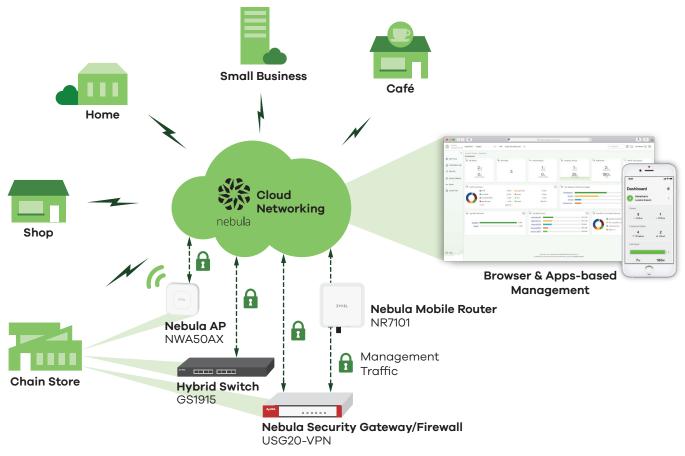
### **GS1915-24EP** 24-port GbE Smart Managed PoE Switch



- 12 x GbE PoE RJ-45 ports
- 12 x GbE RJ-45 ports
- PoE power budget: 130 W

## **Application Diagram**

### Cloud Management



**On-premises Nebula Hardware** 

# Specifications

Model		GS1915-8	GS1915-8EP	GS1915-24E	GS1915-24EP
Product name		8-port GbE Smart	8-port GbE Smart	24-port GbE Smart	24-port GbE Smart
		Managed Switch	Managed PoE Switch	Managed Switch	Managed PoE Switch
Switch class		Smart Managed	Smart Managed	Smart Managed	Smart Managed
Port Density					
Total port count		8	8	24	24
100/1000 Mbps		8	8	24	24
ΡοΕ					
802.3at PoE ports		-	8	-	12
Total PoE budget (Watts)		-	60	-	130
Performance					
Switching capacity (Gbps)		16	16	48	48
Forwarding rate (Mpps)		11.9	11.9	35.7	35.7
Packet buffer (byte)		525 K	525 K	525 K	525 K
MAC address table		8 K	8 K	8 K	8 K
Jumbo frame (byte)		9 K	9 K	9 K	9 K
Power					
Input		100 - 240 V AC, 50/60 Hz	100 - 240 V AC, 50/60 Hz	100 - 240 V AC, 50/60 Hz	100 - 240 V AC, 50/60 Hz
Max. power co	onsumption (watt)	4.7	72	15.5	166.1
Physical Specifications					
Item	Dimensions (WxDxH)(mm/in.)	250 x 104 x 27/ 9.84 x 4.09 x 1.06	250 x 104 x 27/ 9.84 x 4.09 x 1.06	267 x 162 x 42/ 10.51 x 6.37 x 1.65	330 x 230 x 44/ 12.99 x 9.06 x 1.73
	Weight (kg/lb.)	0.62/1.37	0.62/1.37	1.57/3.46	2.48/5.47
Packing	Dimensions (WxDxH)(mm/in.)	302 x 227 x 64/ 11.89 x 8.94 x 2.52	302 x 227 x 64 11.89 x 8.94 x 2.52	325 x 223 x 71/ 12.8 x 8.78 x 2.80	389 x 337 x 79/ 15.31 x 13.27 x 3.11
	Weight (kg/lb.)	1.1/2.43	1.4/3.09	2.05/4.52	3.87/8.53
Included accessories		<ul><li>Power adapter</li><li>Wall mount kit</li></ul>	<ul><li>Power cord</li><li>Power adapter</li><li>Wall mount kit</li></ul>	<ul> <li>Power cord</li> <li>Wall mount kit</li> <li>Rack mounting kit</li> </ul>	<ul><li>Power cord</li><li>Rack mounting kit</li></ul>
Green Feature	es				
Fanless		Yes	Yes	Yes	-
ESD/Surge Protections					
Ethernet port	surge protection	2 KV	2 KV	2 KV	2 KV
Power	Line-GND	2 KV	2 KV	2 KV	2 KV
supply surge protection	Line-Line	1KV	1 KV	1 KV	1 KV
Ethernet port (air/contact)	ESD protection	8 KV/4 KV	8 KV/4 KV	8 KV/4 KV	8 KV/4 KV
Environmento	al 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	0°C to 40°C/ 32°F to 104°F
	Humidity	10% to 95% (non-condensing)	10% to 95% (non-condensing)	10% to 95% (non-condensing)	10% 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	-40°C to 70°C/ -40°F to 158°F
	Humidity	10% to 95% (non-condensing)	10% to 95% (non-condensing)	10% to 95% (non-condensing)	10% to 95% (non-condensing)
MTBF (hr)		1,144,461	1,641,000	674,068	768,989
Heat dissipation (BTU/hr)		16.03	245.52	53	566
Acoustic noise (min/max, dBA)		0	0	0	19/40

### Features

### **Standard Compliance**

- IEEE 802.3 10BASE-T Ethernet\*
- IEEE 802.3u 100BASE-TX Ethernet\*
- IEEE 802.3ab 1000BASE-T Ethernet\*
- IEEE 802.3x flow control
- IEEE 802.3af PoE\*
- IEEE 802.3at PoE+\*
- IEEE 802.3az EEE support/Green Ethernet
- IEEE 802.1p CoS support\*

### **Resilience and Availability**

- IEEE 802.1D Spanning Tree Protocol (STP)\*
- IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)\*
- IEEE 802.3ad LACP\* (max # trunks/ links per trunk):
  - 8/8EP: 4 groups/8 links per group
  - 24E/24EP: 8 groups/8 links per group
- Loop guard\*
- Dual configuration files
- Dual images\*

### **Traffic Control**

- 802.1Q Static VLANs: 256\*
- Port-based VLAN
- Voice VLAN\*
- MAC-based VLAN
- Vendor ID based VLAN\*
- VLAN Trunking\*
- 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

Datasheet GS1915 Series

DHCP Snooping

### **Quality of Service (QoS)**

- 802.1p queuing methods: SPQ, WRR, WFQ
- Storm control: broadcast, multicast, unknown unicast (DLF)\*
- Port-based rate limiting (ingress/ egress)\*
- 802.3x flow control
- 802.1p Class of Service (SPQ, WFQ, SPQ/WFQ combination capable)
- DiffServ (DSCP)

### Layer 2 Multicast

- L2 Multicast\*
- Static L2 Multicast Forwarding
- IGMP snooping (v1, v2, v3)\*

### Manageability

- SNMP v1\*, v2c\*, v3
- SNMP trap group
- RMON (1, 2, 3, 9)
- ICMP echo/echo reply
- Syslog\*
- Display port utilization\*
- IEEE 802.1AB LLDP
- IEEE 802.1AB LLDP-MED
- Custom default
- Support NebulaFlex for Cloud Management

### **IPv6 Management**

- IPv6 over Ethernet (RFC 2464)
- IPv6 addressing architecture (RFC 4291)
- Dual stack (RFC4213)
- ICMPv6 (RFC4884)
- Path MTU (RFC 1981)
- Minimum Path MTU size of 1280 (RFC 5905)
- Encapsulation for maximum PMTU size of 1500

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• Neighbor Discovery (RFC4861)

### **Device Management**

- Standalone management by Web interface
  - Cloud management by Nebula Control Center\*
     Setup Wizard
- Management through Web, SNMP
- Remote firmware upgrade by FTP/Web
- Configuration saving and retrieving
- DHCP client\*
- DHCP relay per VLAN
- Daylight saving\*
- NTP (IPv4/IPv6)
- Port mirroring\*
- Schedule PoE\*
- PoE default consumption mode\*

### MIB

- Zyxel private 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 2233 SMIv2 MIB
- RFC 2358 Ethernet-like MIB
- RFC 2674 bridge MIB extension
- RFC 2819, 2925 Remote Management MIB
- RFC 3621 Power Ethernet MIB
- RFC 4293 Management Information Base (MIB) for IP

• RFC 4022 management information

• RFC 4113 management information

base for user datagram protocol

• RFC 4292 IP forwarding table MIB

base for transmission control

protocol

### 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

#### 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)

### **Certifications Safety**

- EMC
  - CE, FCC, RCM, Class A
  - BSMI CNS 13438
- Safety
  - LVD EN 62368-1
- BSMI CNS 14336-1
  RoHS

\* Cloud and standalone modes supported features.

