GS1915 Series

8-port GbE Smart Managed Switch

The Zyxel GS1915 Series offers two 8-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

Our visual step-by-step guide makes it easy to setup switches and other network devices to Nebula either through the Web Interface and mobile APP. 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

Immediately check the Switch status by cloud indicator

Compact and fanless 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. The NebulaFlex even allows you to change your mind at any time without additional cost while protecting previous investments on wired technology.

Compact size, silent operation

Both models in the GS1915 Series come with desktop dimensions and fanless design. The slim and silent Switch can perfectly blend into any working environment without disturbing fan noises.

Intelligence to power more devices

All 8 ports of GS1915-8EP support IEEE 802.3at for max deployment of modern PoE devices. Each port provides up to 30 W with a total of 60W power budget, ideal for setup just a few more AP and camera for small businesses. The GS1915-8EP features a default PoE consumption mode that delivers only the actual power required by your networked devices, reserves the rest to optimize its power budget, allowing the switch to power more devices, ensuring a better ROI for your business.

Model List

GS1915-8
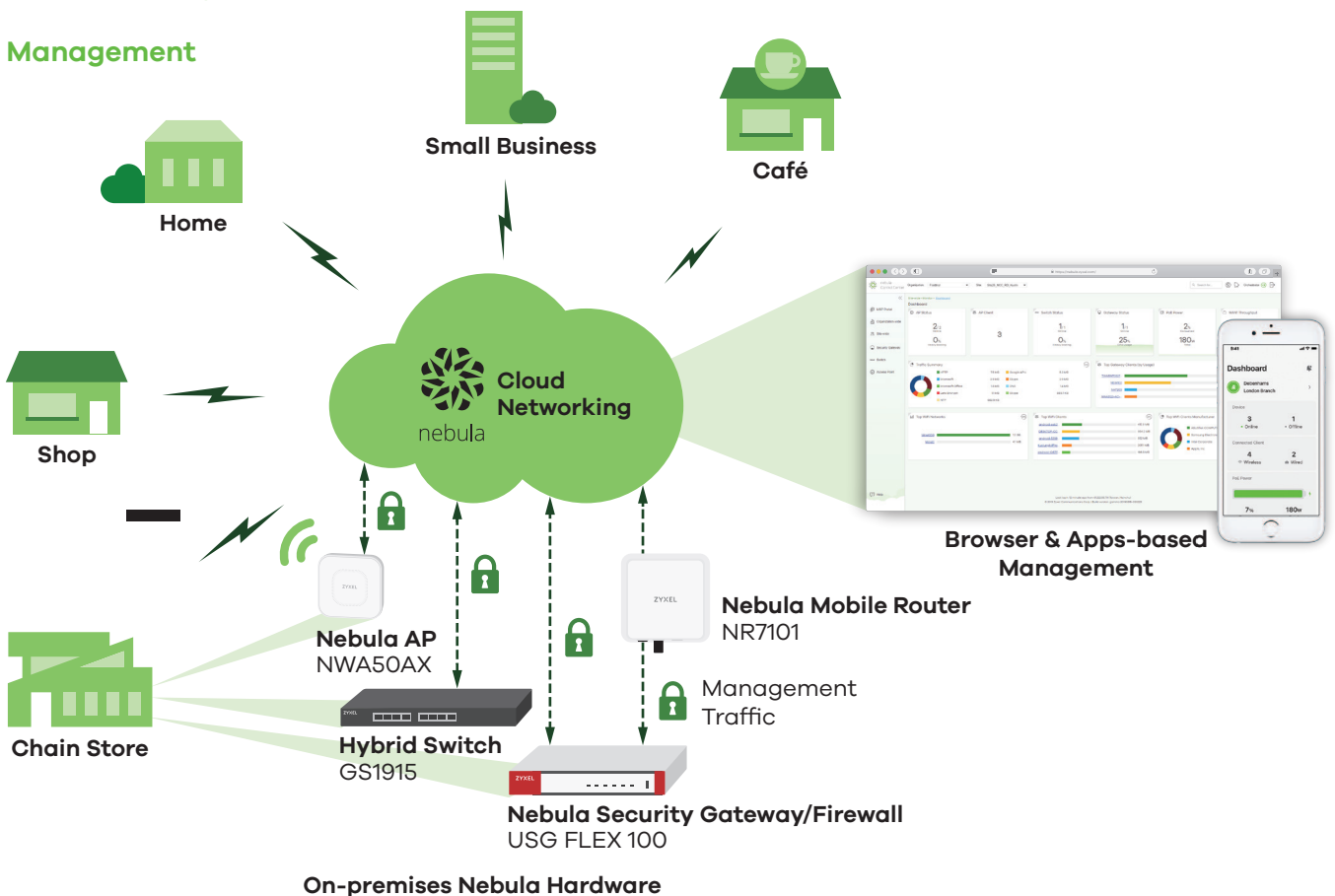8-port GbE Smart Managed Switch

• 8 x GbE RJ-45 ports

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

• 8 x GbE PoE RJ-45 ports
• PoE power budget: 60 W

Application Diagram

Cloud Management

Home

Small Business

Café

Shop

Chain Store

Cloud Networking nebula

Nebula AP
NWA50AX

Hybrid Switch
GS1915

Nebula Security Gateway/Firewall
USG FLEX 100

On-premises Nebula Hardware

Nebula Mobile Router
NR7101

Management Traffic

Browser & Apps-based Management

Specifications

Model		GS1915-8	GS1915-8EP
Product name		8-port GbE Smart Managed Switch	8-port GbE Smart Managed PoE Switch
Switch class		Smart Managed	Smart Managed
Port Density			
Total port count		8	8
100/1000 Mbps		8	8
PoE			
802.3at PoE ports		-	8
Total PoE budget (Watts)		-	60
Performance			
Switching capacity (Gbps)		16	16
Forwarding rate (Mpps)		11.9	11.9
Packet buffer (byte)		525 K	525 K
MAC address table		8 K	8 K
Jumbo frame (byte)		9 K	9 K
Power			
Input		100 - 240 V AC, 50/60 Hz	100 - 240 V AC, 50/60 Hz
Max. power consumption (watt)		4.7	72
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
	Weight (kg/lb.)	0.62/1.37	0.62/1.37
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
	Weight (kg/lb.)	1.1/2.43	1.4/3.09
Included accessories		• Power adapter • Wall mount kit	• Power cord • Power adapter • Wall mount kit
Environmental Specifications			
Operating	**Temperature**	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)
Storage	**Temperature**	-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)
MTBF (hr)		1,144,461	1,641,000
Heat dissipation (BTU/hr)		16.03	245.52
Acoustic noise (min/max, dBA)		0	0

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): 4 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
- 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
- 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 4292 IP forwarding table MIB
- RFC 4022 management information base for transmission control protocol
- RFC 4113 management information base for user datagram 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

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Datasheet GS1915 Series