



Key Features

- **Securing network with Web authentication support**
 - Web authentication: enhanced security collaboration with the NWA3000 AP Series
- **Easy installation and management**
 - Auto MDI/MDI-X support
 - Friendly Web GUI (Smart Mode and Advance Mode)
 - Auto-discovery utility (topology-based)
- **Green Networking**
 - Saving energy with traffic detection (EEE)
 - Power usage adjustment with link status
 - Saving energy with cable length detection
- **Fanless design for silent environments**

The ZyXEL GS1510 Series is a user-friendly solution aiming at office network environments demanding silent operation and green technology. The Series provides security and plug-and-play simplicity for sustainable high-bandwidth connectivity.

The GS1510 Series consists of 16- and 24-port 10/100/1000 Mbps Web-managed switches. The GS1510-24 Switch offers two open Gigabit SFP slots to provide more flexibility on fiber connectivity for long loop reach applications. The GS1510 Series not only provides Layer-2 switching capability at wire speed over the current CAT-5 cabling to desktops following the IEEE standards, but also features high performance, ease of use, flexible deployment and enhanced energy efficiency. It is ideal for small businesses to protect the existing network investments while extending managed networks.

Key Benefits

Secure your network

To address security needs, The GS1510 Series not only supports 802.1X port-based authentication that allows the network to be authenticated through external RADIUS servers, but also enables Web authentication to provide enhanced, secured collaboration with ZyXEL's NWA3000 AP Series.

Easy installation and management

The GS1510 Series offers plug-and-play connectivity and easy installation. With the Auto MDI/MDI-X feature, it eliminates the need for crossover cables when connecting to another switch or hub; in addition, the Auto-negotiation feature senses the link speed of a connected network device then intelligently makes adjustments for compatibility and optimal performance. The GS1510 Series also offer easy management to fulfill user needs through SNMP and the Web-based GUI that provides two modes: the Smart Mode and the Advance Mode.

The Smart Mode enables IT administrators to quickly set up important features such as basic IP settings, Energy Efficient Ethernet, Web Authentication, DHCP Snooping, and the Spanning Tree Protocol (STP). The Advance Mode provides more comprehensive options for users to configure the advanced settings.

In addition, the GS1510 Series provides Auto-discovery tool for topology management as well. This tool helps the network administrator to find the IP address of a GS1510 on the network by performing a scan process; this function is useful if the default IP address has been changed and the device could not be located on the network.



Enterprise LAN Switches Switch 1510 Series

Green Networking

The GS1510 Series has environment-awareness along with Gigabit Ethernet speeds critical for the next-generation network applications and provides power saving functions to reduce energy consumption and to help businesses save cost.

Traffic detection — IEEE Energy-Efficient-Ethernet (EEE) compliance

The feature automatically detects network traffics and adjusts power consumption accordingly in a dynamic manner. It reduces power consumption during periods of low link utilization.

Inactive link detection

The power usage adjustment feature automatically reduces power usage when any shut down network device or inactive link is detected. That is, power consumption of the Series can be adjusted according to the link status or the number of active network devices when possible.

Cable length detection

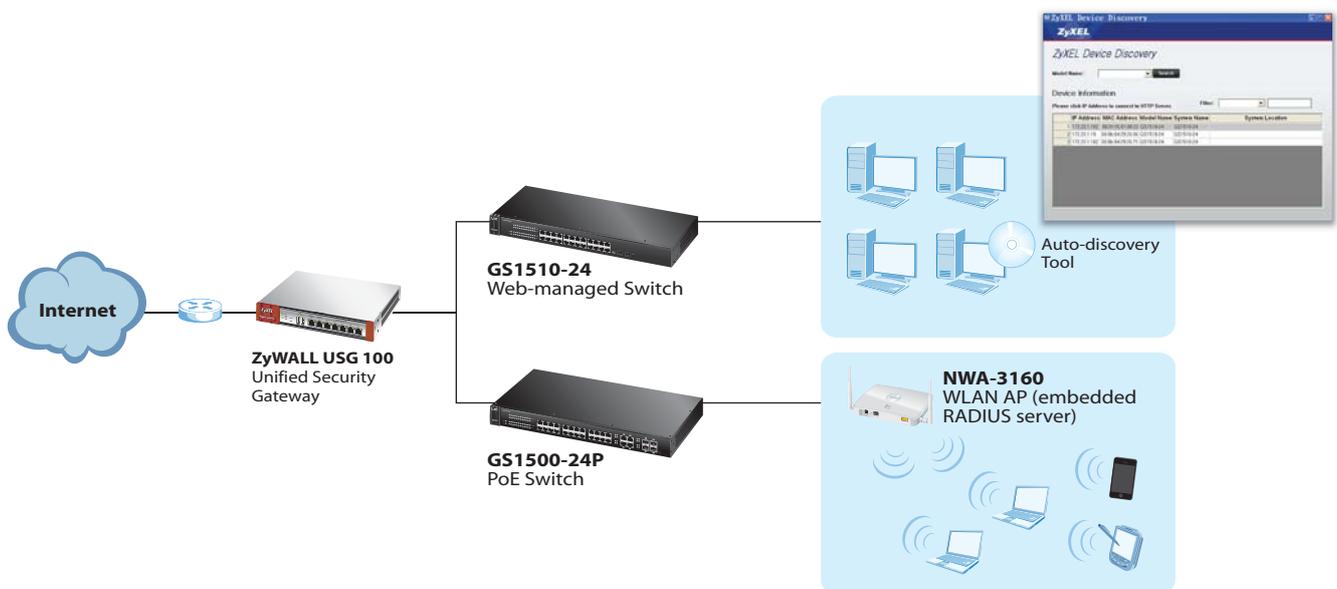
The devices equipped with this green feature can automatically detect the length of connected Ethernet cables and adjust power usage accordingly. The shorter the cable length, the less power it consumes.

Fanless design

Since the fanless design ensures quiet operation in small office spaces, the GS1510 Series is the perfect solution for small business and SOHO office deployments. The design promotes quieter environments and less heat dissipation, and it offers energy and cost saving properties without affecting the desirable performance, making it an ideal solution for growing businesses and operators.

Key Applications

The GS1510 Series provide SMBs with technologies and applications that enable complex, corporate-level networks but allow simple implementation. As SMBs are usually lacking a dedicated IT staff, the rich, secure network features are designed to require the least administration and maintenance efforts. Independent operation empowered by intelligent management is the key to success: brought to you today by the ZyXEL GS1510 Series.



Specifications

Model	GS1510-16	GS1510-24
Product Picture		
Port Density		
1000Base-T	16	24
Open SFP Slot (GbE)	-	2
Performance		
Switching Capacity (Gbps)	32	52
Switching Forwarding Rate (Mpps)	23.8	38.7
MAC Address	16K	16K
Power Requirement		
Input Voltage of AC	100 - 240 V AC, 50/60 Hz	
Maximum Power Consumption (Watt)	18	20
Environmental Specification		
Operating Temperature	0°C to 50°C	
Storage Temperature	-40°C to 70°C	
Operating Humidity	10% to 95% (non-condensing)	
Physical Feature		
Dimensions (mm)(W x D x H)	440 x 170 x 44	440 x 170 x 44
Weight (kg)	2.3	2.4

Features

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 (GS1510-24 only)
- IEEE 802.3az EEE support
- IEEE 802.3x Flow control
- IEEE 802.1p Class of service, priority protocols

Traffic Management and QoS

- Port-based egress traffic shaping
- Broadcast storm control
- IEEE 802.1p with 8 priority queues per port for different traffic types
- Weighted Round Robin (WRR)/SPQ/WFQ scheduling algorithm
- Supports DSCP
- Supports DSCP to 802.1p priority mapping
- Supports IGMP/IGMP snooping v1, v2, v3
- Jumbo frame support (up to 9 KB)
- Auto-discovery

Link Aggregation

- IEEE 802.3ad LACP link aggregation compliant
- Support static manually port trunking
- Up to 8 aggregation groups, 8 ports/per group randomly selected

Resilient Network

- IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)

User Security and Authentication

- Web authentication
- 256 static VLAN, up to 4K dynamic VLAN
- Port-base VLAN
- IEEE 802.1Q tag-based and port-based VLAN
- Specific MAC forwarding per port: only specified MAC addresses can access the network (Port security)
- 802.1x port-based authentication, compensated assignment over VLAN and bandwidth for valid access
- IP source guard
- Loop guard

Network Administration Security

- User name/password required for Web
- Two-level security by specific SNMP read/write community

Network Management

- Web-based management
- SNMP v1, v2c
- IP management: Static IP or DHCP client
- RMON four RMON groups 1, 2, 3, 9 (history, statistics, alarms, and events) for enhanced traffic management, monitoring, and analysis
- Port mirroring: supports source/destination/ both port mirroring

MIB Information

- RFC 1213, 1157 SNMP v2c MIB
- RFC 1493 bridge MIB
- RFC 1643 Ethernet MIB
- RFC 1757 RMON group 1, 2, 3, 9

Certifications

Safety

- CSA 60950-1
- EN 60950-1
- IEC 60950-1

Emission (EMC)

- FCC Part15 (Class A)
- CE EMC (Class A)



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