

ZyXEL

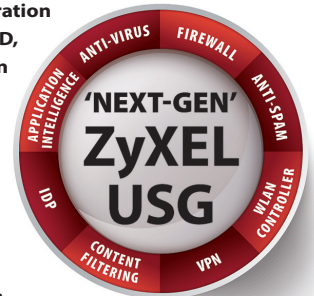


Truly Integrated Security for Remote Offices, Retail Locations and Small Businesses

- All-in-one Next Generation Firewall (NGFW) for small businesses
- Anti-malware protection with firewall, anti-virus, anti-spam, content filtering, IDP, and next-generation application intelligence
- Robust SSL, IPSec and L2TP over IPSec VPN connectivity
- Integrated single-radio (USG40W) or dual-radio (USG60W) wireless access point
- Built-in WLAN controller for centralized management of up to 10 APs

The advancements in how people work and collaborate have brought three major challenges to small businesses. With the BYOD trend, small businesses today need to provide more Wi-Fi for an exploding amount of smart devices. The use of cloud-based social and productivity applications not only requires small businesses to be able to control, prioritize and block different applications to stay productive, but also opens doors to new Web attacks. As threats evolve and these business challenges diversify, IT costs will only continue to grow, which is a real problem for small businesses with limited IT resources.

The new ZyXEL USG Performance Series are all-in-one Next Generation Firewalls (NGFW) specifically designed to fulfill the demands BYOD, malware protection, application regulation, and budget control in small business environments. The built-in wireless AP (USG40W and USG60W) and WLAN controller offer instant wireless hotspot capability and future WLAN scalability. Comprehensive UTM features and application intelligence technology provides deep, extensive protection, while keeping businesses in control of how Web applications are used. The all-in-one design integrates everything small businesses need, delivering easier, more centralized management and lower total cost of ownership (TCO).



Benefits

Spend less, get more

The ZyXEL USG Performance Series offers small businesses the lowest total cost of ownership. The all-in-one design provides everything small businesses need: anti-malware protection, VPN connectivity, integrated WLAN controller, and built-in wireless access point. This truly integrated security solution eliminates the need to purchase multiple appliances for different functions, and allows small businesses to connect, protect and manage with just one device.

Peace of mind security

The ZyXEL USG Performance Series delivers enterprise-grade Next Generation Firewall security without the hefty price tag. It provides deep, extensive protection and effective control of Web applications—like Facebook, Google Apps and Netflix—with such anti-malware protection mechanisms as firewall, anti-virus, anti-spam, content filtering, IDP and application intelligence. No longer do small businesses need to worry about threats, spam or social networking sites decreasing productivity.



USG60/60W/40/40W
Unified Security Gateway—
Performance Series



Wi-Fi where you need it

Addressing the trend of BYOD, the ZyXEL USG Performance Series helps small businesses provide Wi-Fi wherever there is demand. The USG40W and USG60W feature built-in single-radio and dual-radio wireless access points that can provide Wi-Fi for small offices straight out of the box. With an integrated WLAN controller, the USG Performance Series enables businesses to easily provide Wi-Fi in multiple other areas like reception areas and meeting rooms when Wi-Fi demand grows.

Single point of management

Designed specifically for businesses with limited IT resources, the ZyXEL USG Performance Series helps users connect, protect and manage with reduced complexity. The unified security policy design offers easier, more unified and streamlined management of all the security features; while the integrated WLAN controller provides centralized management of up to 10 APs. All this is integrated into a single solution, making it easy for users to manage VPN, wireless and security all from one device.

Next-Gen USG Performance Series

USG60 Unified Security Gateway



- 6 x GbE RJ-45, 2 x USB (dual-WAN & mobile broadband)

USG60W Unified Security Gateway



- 6 x GbE RJ-45, 2 x USB (dual-WAN & mobile broadband)

USG40 Unified Security Gateway



- 5 x GbE RJ-45, 1 x USB (dual-WAN & mobile broadband)

USG40W Unified Security Gateway

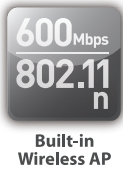


- 5 x GbE RJ-45, 1 x USB (dual-WAN & mobile broadband)

Next-Gen USG Quick Finder

	USG60/60W		USG110			USG1100		USG1900
Model	USG40/40W	USG60/60W	USG110	USG210	USG310	USG1100	USG1900	
Description	Performance Series		Advanced Series			Extreme Series		
Firewall throughput	400 Mbps	1.0 Gbps	1.6 Gbps	1.9 Gbps	5.0 Gbps	6.0 Gbps	7.0 Gbps	
VPN throughput	100 Mbps	180 Mbps	400 Mbps	500 Mbps	650 Mbps	800 Mbps	900 Mbps	
UTM throughput (AV and IDP)	50 Mbps	90 Mbps	250 Mbps	300 Mbps	400 Mbps	500 Mbps	600 Mbps	
Max. TCP concurrent sessions	20,000	40,000	60,000	80,000	100,000	300,000	500,000	
Recommended # of users	1 - 10	10 - 25	25 - 50	50 - 75	75 - 200	200 - 350	350 - 500	
Wi-Fi	802.11 b/g/n 2.4 GHz	802.11 a/b/g/n Concurrent 2.4 & 5 GHz	-	-	-	-	-	
Managed AP number (default/max.)	2/10	2/10	2/18	2/18	2/18	2/18	2/18	
UTM licenses	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Multi-WAN	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Unified security policy	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
SSL inspection	-	-	Yes	Yes	Yes	Yes	Yes	
Device HA	-	-	Yes	Yes	Yes	Yes	Yes	
Port grouping	Yes	Yes	Yes	Yes	-	-	-	

Feature Introduction



Built-in Wireless AP

Built with single-radio and dual-radio wireless access points, the ZyXEL USG40W and USG60W are ideal for retail and office environments. The USG60W integrates 802.11 a/b/g/n technology that delivers Wi-Fi over both the 2.4 GHz and the 5 GHz spectrums.



Unified Security Policy

Unified Security Policy

Unified security policy offers object-based management and a unified configuration interface for firewall and all security-related policies. Users can easily apply all policy criteria to every UTM feature, reduce configuration time, and get more streamlined policy management.



Anti-Virus

Anti-Virus

Powered by Kaspersky SafeStream II gateway anti-virus, ZyXEL USGs provide comprehensive and real-time protection against malware threats before they enter the network. ZyXEL USGs can identify and block over 650,000 viruses right at the gate and provide high-speed scanning with stream-based virus scanning technology.



Anti-Spam

Anti-Spam

With a cloud-based IP reputation system, ZyXEL anti-spam can deliver accurate, zero-hour spam outbreak protection by analyzing up-to-the-minute sender reputation data from highly diverse traffic sources. It can detect spam outbreaks in the first few minutes of emergence regardless of spam language or format.



VPN

Robust VPN

ZyXEL USGs support high-throughput IPSec, L2TP over IPSec and SSL VPN for a wide range of site-to-client and site-to-site VPN deployments. Reinforced with the advanced SHA-2 encryption, the ZyXEL USGs provide the most secure VPN for business communications.



Integrated WLAN Controller

Integrated WLAN Controller

The integrated WLAN controller supports CAPWAP, and enables centralized authentication and access management of multiple APs in the network. The ZyXEL USG Performance Series can manage 2 APs by default, and up to 10 APs with license upgrade.



Application Intelligence

Application Intelligence

ZyXEL's USG Performance Series can identify, categorize and control over 3,000 social, gaming, productivity, and other Web applications and behaviors. Users can prioritize productive applications, throttle acceptable ones, and block unproductive applications to boost productivity and prevent bandwidth abuse.



Intrusion Detection & Prevention

Intrusion Detection & Prevention (IDP)

ZyXEL's IDP system uses Deep Packet Inspection (DPI) technology that can scan multiple layers and protocols to inspect vulnerabilities invisible to simple port- and protocol-based firewalls. ZyXEL's IDP eliminates false positives with a database of malware signatures and provides effective protection against intrusions from unknown back doors.



Content Filtering

Content Filtering

ZyXEL content filtering helps screen access to websites that are not business related or malicious. With a massive, cloud-based database of over 140 billion URLs that are continuously analyzed and tracked, ZyXEL provides highly accurate, broad and instant protection against malicious Web content.



Multiple WANs

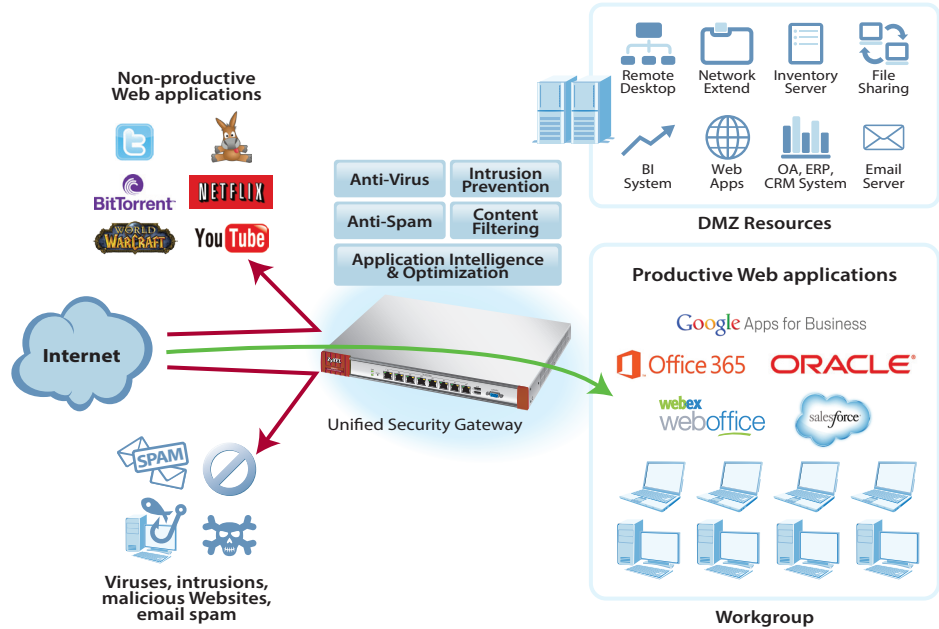
Dual-WAN & Mobile Broadband

The ZyXEL USG Performance Series provides high Internet uptime with dual-WAN and mobile broadband support. Dual-WAN works with two Ethernet WAN connections for active-active load balancing or active-passive failover. Comprehensive mobile broadband USB modems are also supported for WAN backup.

Application Diagram

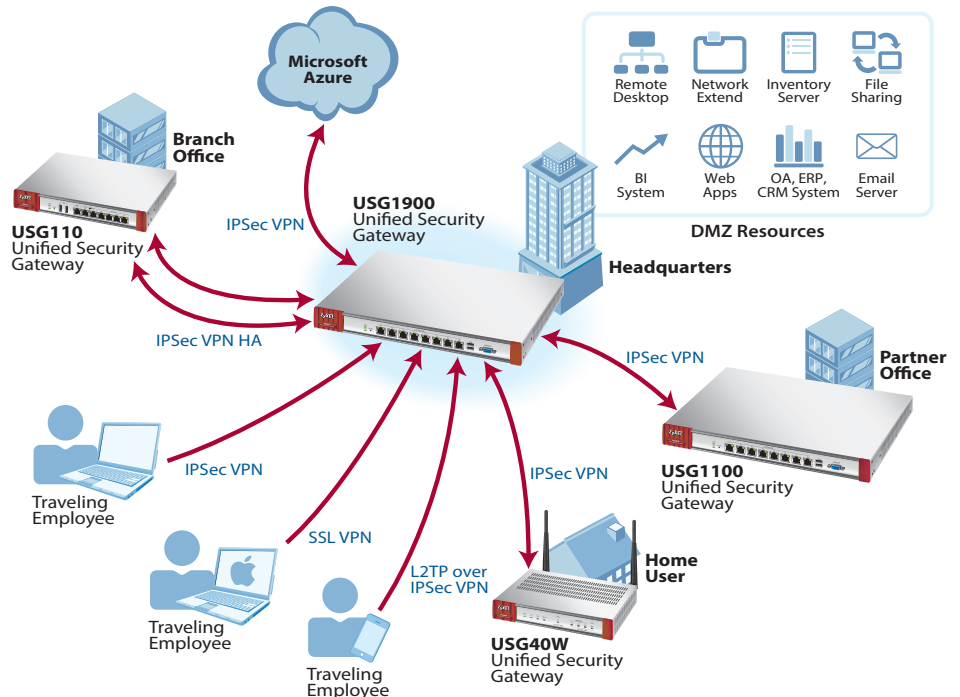
Anti-malware protection and application optimization

- Enabling anti-virus, anti-spam and intrusion prevention, business networks gain deep, extensive protection against all types of malware threats
- Content filtering enables businesses to deny access to Websites that are malicious or not business-related
- Application intelligence technology not only enable businesses to block or throttle non-productive Web applications, but also optimize Web applications that increase productivity



VPN application

- Branch offices, partners and home users can deploy ZyXEL USGs/ ZyWALLs for site-to-site IPSec VPN connections
- Branch offices can additionally deploy IPSec VPN HA (load balancing and failover) for always online VPN connectivity
- Remote users can securely access company resources with their computers or smartphones via SSL, IPSec and L2TP over IPSec VPN
- The headquarter USG/ZyWALL can also establish an IPSec VPN connection with Microsoft Azure for secured access to a variety of cloud-based applications



Specifications

Model	USG60	USG60W	USG40	USG40W
Hardware Specifications				
10/100/1000 Mbps RJ-45 ports	4 x LAN/DMZ, 2 x WAN	4 x LAN/DMZ, 2 x WAN	3 x LAN/DMZ, 1 x WAN, 1 x OPT	3 x LAN/DMZ, 1 x WAN, 1 x OPT
USB ports	2	2	1	1
Console port	Yes (DB9)	Yes (DB9)	Yes (RJ-45)	Yes (RJ-45)
Rack-mountable	Yes	Yes	-	-
System Capacity & Performance¹				
SPI firewall throughput (Mbps)²	1,000	1,000	400	400
VPN throughput (Mbps)³	180	180	100	100
IDP throughput (Mbps)⁴	120	120	55	55
AV throughput (Mbps)⁴	90	90	50	50
UTM throughput (AV and IDP)⁴	90	90	50	50
Unlimited user licenses	Yes	Yes	Yes	Yes
Max. TCP concurrent sessions⁵	40,000	40,000	20,000	20,000
New TCP session rate	3,000	3,000	3,000	3,000
Max. concurrent IPsec VPN tunnels	20	20	10	10
Max. concurrent SSL VPN users	12	12	7	7
Included SSL VPN user no.	2	2	2	2
Customizable zones	Yes	Yes	Yes	Yes
IPv6 support	Yes	Yes	Yes	Yes
VLAN interface	16	16	8	8
WLAN Management				
AP Controller (APC) ver.	1.0	1.0	1.0	1.0
Managed AP number (default/max.)	2/10	2/10	2/10	2/10
Wireless Specifications				
Standard compliance	-	802.11 a/b/g/n	-	802.11 b/g/n
Wireless frequency	-	Concurrent 2.4 & 5 GHz	-	2.4 GHz
Radio	-	2	-	1
SSID number	-	16	-	8
Maximum transmit power (Max. total channel)	US (FCC) 2.4 GHz	-	24.3 dBm, 2 antennas	24.3 dBm, 2 antennas
	US (FCC) 5 GHz	-	25.8 dBm, 2 antennas	-
	EU (ETSI) 2.4 GHz	-	17 dBm, 2 antennas	17 dBm, 2 antennas
	EU (ETSI) 5 GHz	-	25.6 dBm, 2 antennas	-
No. of antenna	-	2.4 GHz: 2T2R MIMO 5 GHz: 2T2R MIMO (Detachable, SMA-R)	-	2.4 GHz: 2T2R MIMO (Detachable, SMA-R)
Antenna gain	-	3 dBi	-	3 dBi
Data rate	-	802.11 b/g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48 and 54 Mbps 802.11a: 6, 9, 12, 18, 24, 36, 48 and 54 Mbps 802.11n: up to 300 Mbps in MCS15 (40 MHz; GI = 400 ns)	-	802.11 b/g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48 and 54 Mbps 802.11n: up to 300 Mbps in MCS15 (40 MHz; GI = 400 ns)
Receive sensitivity	2.4 GHz	-	2.4 GHz: 11 Mbps ≤ -87 dBm 54 Mbps ≤ -77 dBm HT20 ≤ -71 dBm HT40 ≤ -68 dBm	2.4 GHz: 11 Mbps ≤ -87 dBm 54 Mbps ≤ -77 dBm HT20, MCS15 ≤ -71 dBm HT40, MCS15 ≤ -68 dBm
	5 GHz	-	5 GHz: 54 Mbps ≤ -75 dBm HT20, MCS15 ≤ -71 dBm HT40, MCS15 ≤ -69 dBm	-

Model	USG60	USG60W	USG40	USG40W	
Key Software Features					
Virtual Private Network (VPN)	Yes (IPSec, SSL, L2TP over IPSec)	Yes (IPSec, SSL, L2TP over IPSec)	Yes (IPSec, SSL, L2TP over IPSec)	Yes (IPSec, SSL, L2TP over IPSec)	
Firewall	Yes	Yes	Yes	Yes	
Anti-Virus (AV)	Yes	Yes	Yes	Yes	
Anti-spam	Yes	Yes	Yes	Yes	
Content Filtering (CF)	Yes	Yes	Yes	Yes	
Application intelligence and optimization	Yes	Yes	Yes	Yes	
Intrusion Detection and Prevention (IDP)	Yes	Yes	Yes	Yes	
Single Sign-On (SSO)	Yes	Yes	Yes	Yes	
Power Requirements					
Power input	12 V DC, 3.0 A max.	12 V DC, 3.0 A max.	12 V DC, 2.0 A max.	12 V DC, 2.0 A max.	
Max. power consumption (watt)	19.0	28.0	14.0	17.0	
Physical Specifications					
Item	Dimensions (WxDxH)(mm/in.)	242 x 175 x 36/ 9.53 x 6.89 x 1.42	272 x 171 x 36/ 10.71 x 6.73 x 1.42	216 x 143 x 33/ 8.50 x 5.63 x 1.30	216 x 143 x 33/ 8.50 x 5.63 x 1.30
	Weight (kg/lb.)	1.25/2.76	1.46/3.23	0.89/1.96	0.91/2
Packing	Dimensions (WxDxH)(mm/in.)	394 x 240 x 101/ 15.51 x 9.45 x 3.98	427 x 247 x 73/ 16.81 x 9.72 x 2.87	381 x 216 x 79/ 15.00 x 8.50 x 3.11	381 x 216 x 79/ 15.00 x 8.50 x 3.11
	Weight (kg/lb.)	2.25/4.96	2.23/4.92 (without bracket) 2.42/5.34 (with bracket)	1.57/3.46	1.63/3.59
Included accessories	<ul style="list-style-type: none"> • Power adapter • Rack mounting kit 	<ul style="list-style-type: none"> • Power adapter • Rack mounting kit (optional, by regions) • Antenna 	<ul style="list-style-type: none"> • Power adapter • DB9 - RJ-45 cable for console connection 	<ul style="list-style-type: none"> • Power adapter • DB9 - RJ-45 cable for console connection • Antenna 	
Environmental 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 90% (non-condensing)	10% to 90% (non-condensing)	10% to 90% (non-condensing)	10% to 90% (non-condensing)
Storage	Temperature	-30°C to 70°C (-22°F to 158°F)	-30°C to 70°C (-22°F to 158°F)	-30°C to 70°C (-22°F to 158°F)	-30°C to 70°C (-22°F to 158°F)
	Humidity	10% to 90% (non-condensing)	10% to 90% (non-condensing)	10% to 90% (non-condensing)	10% to 90% (non-condensing)
MTBF (hr)	815,463.9	497,644	414,329.4	386,931.7	
Certifications					
EMC	FCC Part 15 (Class B), CE EMC (Class B), C-Tick (Class B), BSMI	FCC Part 15 (Class B), CE EMC (Class B), C-Tick (Class B), BSMI	FCC Part 15 (Class B), CE EMC (Class B), C-Tick (Class B), BSMI	FCC Part 15 (Class B), CE EMC (Class B), C-Tick (Class B), BSMI	
Safety	LVD (EN60950-1), BSMI	LVD (EN60950-1), BSMI	LVD (EN60950-1), BSMI	LVD (EN60950-1), BSMI	

*1: Actual performance may vary depending on network conditions and activated applications.

*2: Maximum throughput based on RFC 2544 (1,518-byte UDP packets).

*3: VPN throughput measured based on RFC 2544 (1,424-byte UDP packets).

*4: AV and IDP throughput measured using the industry standard HTTP performance test (1,460-byte HTTP packets). Testing done with multiple flows.

*5: Maximum sessions measured using the industry standard IXIA iLoad testing tool.

Features Set

Software Features

Firewall

- ICSA-certified firewall (certification in progress)
- Routing and transparent (bridge) modes
- Stateful packet inspection
- User-aware policy enforcement
- SIP/H.323 NAT traversal
- ALG support for customized ports
- Protocol anomaly detection and protection
- Traffic anomaly detection and protection
- Flooding detection and protection
- DoS/DDoS protection

IPv6 Support

- IPv6 Ready gold logo (certification in progress)
- Dual stack
- IPv4 tunneling (6rd and 6to4 transition tunnel)
- IPv6 addressing
- DNS
- DHCPv6
- Bridge
- VLAN
- PPPoE

- Static routing
- Policy routing
- Session control
- Firewall and ADP
- IPSec VPN
- Intrusion Detection and Prevention (IDP)
- Application intelligence and optimization
- Content filtering
- Anti-virus, anti-malware
- Anti-spam

IPSec VPN

- ICSA-certified IPSec VPN (certification in progress)
- Encryption: AES (256-bit), 3DES and DES
- Authentication: SHA-2 (512-bit), SHA-1 and MD5
- Key management: manual key, IKEv1 and IKEv2 with EAP
- Perfect forward secrecy (DH groups) support 1, 2, 5
- IPSec NAT traversal
- Dead peer detection and relay detection
- PKI (X.509) certificate support
- VPN concentrator
- Simple wizard support
- VPN auto-reconnection
- VPN High Availability (HA): load-balancing and failover
- L2TP over IPSec
- GRE and GRE over IPSec
- NAT over IPSec
- ZyXEL VPN client provisioning

SSL VPN

- Supports Windows and Mac OS X
- Supports full tunnel mode
- Supports 2-step authentication
- Customizable user portal

Intrusion Detection and Prevention (IDP)

- Routing and transparent (bridge) mode
- Signature-based and behavior-based scanning
- Automatic signature updates
- Customizable protection profile
- Customized signatures supported

Application Intelligence and Optimization

- Granular control over the most important applications
- Identifies and controls over 3,000 applications and behaviors
- Supports over 15 application categories
- Application bandwidth management
- Supports user authentication
- Real-time statistics and reports

Anti-Virus

- Supports Kaspersky anti-virus signatures
- Identifies and blocks over 650,000 viruses
- Stream-based anti-virus engine
- HTTP, FTP, SMTP, POP3 and IMAP4 protocol support
- Automatic signature updates
- No file size limitation

Anti-Spam

- Transparent mail interception via SMTP and POP3 protocols
- Configurable POP3 and SMTP ports
- Sender-based IP reputation filter
- Recurrent Pattern Detection (RPD) technology
- Zero-hour virus outbreak protection
- X-Header support
- Blacklist and whitelist support
- Supports DNSBL checking
- Spam tag support
- Statistics report

Content Filtering

- Social media filtering
- Malicious Website filtering
- URL blocking and keyword blocking
- Blacklist and whitelist support
- Blocks java applets, cookies and ActiveX
- Dynamic, cloud-based URL filtering database
- Unlimited user license support
- Customizable warning messages and redirection URL

Unified Security Policy

- Unified policy management interface
- Supported UTM features: anti-virus, anti-spam, IDP, content filtering, application intelligence, firewall (ACL)
- 3-tier configuration: object-based, profile-based, policy-based
- Policy criteria: zone, source and destination IP address, user, time

WLAN Management

- ZyXEL AP Controller (APC) 1.0 compliant
- Client RSSI threshold to prevent sticky clients
- IEEE 802.1x authentication
- Wireless Layer 2 isolation
- Captive portal Web authentication
- Customizable captive portal page
- Dynamic guest accounts
- RADIUS authentication
- Wi-Fi Multimedia (WMM) wireless QoS
- CAPWAP discovery protocol
- ZyXEL Wireless Optimizer (ZWO) AP planning

Mobile Broadband

- WAN connection failover via 3G and 4G* USB modems
- Auto fallback when primary WAN recovers

*4G USB modem support available in future firmware upgrades

Networking

- Routing mode, bridge mode and hybrid mode
- Ethernet and PPPoE
- NAT and PAT
- VLAN tagging (802.1Q)
- Virtual interface (alias interface)
- Policy-based routing (user-aware)
- Policy-based NAT (SNAT)
- Dynamic routing (RIPv1/v2 and OSPF)
- DHCP client/server/relay
- Dynamic DNS support
- WAN trunk for more than 2 ports
- Per host session limit
- Guaranteed bandwidth
- Maximum bandwidth
- Priority-bandwidth utilization

Authentication

- Local user database
- Microsoft Windows Active Directory integration
- External LDAP/RADIUS user database
- XAUTH, IKEv2 with EAP VPN authentication
- Web-based authentication
- Forced user authentication (transparent authentication)
- IP-MAC address binding
- SSO (Single Sign-On) support

System Management

- Role-based administration
- Multiple administrator logins
- Multi-lingual Web GUI (HTTPS and HTTP)
- Command line interface (console, Web console, SSH and TELNET)
- SNMP v2c (MIB-II)
- System configuration rollback
- Firmware upgrade via FTP, FTP-TLS and Web GUI
- Dual firmware images

Logging and Monitoring

- Comprehensive local logging
- Syslog (to up to 4 servers)
- Email alerts (to up to 2 servers)
- Real-time traffic monitoring
- Built-in daily report
- Advanced reporting with Vantage Report

Licenses

Security

Product	Kaspersky Anti-Virus	Application Intelligence & IDP	Content Filtering	Anti-Spam
USG60/60W	1 year 2 years	1 year 2 years	1 year 2 years	1 year 2 years
USG40/40W	1 year 2 years	1 year 2 years	1 year 2 years	1 year 2 years

Notes:

1. ZyXEL USGs can be purchased with bundled 12-month standard license (anti-virus, anti-spam, content filtering and IDP) with extra 1-month trial.
2. Licenses can be easily activated, renewed and managed at myZyXEL.com 2.0
3. License bundles may vary according to region. Please contact your local sales representative for more information.



VPN, Management and Reporting

Product	Managed APs	SecuExtender—SSL VPN Client	IPSec VPN Client	Vantage Report
USG60/60W	Add 8 APs	Add 5 clients	For 1 client For 5 clients For 10 clients For 50 clients	For 1 device For 5 devices For 25 devices For 100 devices
USG40/40W	Add 8 APs	Add 5 clients		

Access Point Compatibility List

Series	NWA5120 Series	NWA5000 Series	NWA3000-N Series
	Unified Access Point	Managed Access Point	Unified Pro Access Point
Model	NWA5121-NI NWA5121-N NWA5123-NI	NWA5160N NWA5560-N NWA5550-N	NWA3160-N NWA3560-N NWA3550-N
Functions			
Central management	Yes	Yes	Yes
Auto provisioning	Yes	Yes	Yes
Data forwarding	Local bridge	Local bridge	Local bridge

Accessories

Item	Description	Supported OS
IPSec VPN Client 	IPSec VPN client software for the ZyWALL and USG Series with Easy VPN for zero-configuration remote access	<ul style="list-style-type: none"> • Windows XP (32-bit) • Windows Server 2003 (32-bit) • Windows Server 2008 (32/64-bit) • Windows Vista (32/64-bit) • Windows 7 (32/64-bit) • Windows 8 (32/64-bit)
SecuExtender—SSL VPN Client 	SSL VPN client software for the ZyWALL and USG Series with auto-installation in Windows, and lite set up for MAC user	<ul style="list-style-type: none"> • Windows OS • MAC OS 10.7 or later

Notes:

1. A 30-day trial version of IPSec VPN client and SSL VPN client for MAC OS can be downloaded from official ZyXEL website. To continue using the application, please contact your regional sales representatives and purchase a commercial license for the application.
2. SSL VPN client for Windows OS is pushed from USG/ZyWALL device and launches automatically. It does not require a license key to activate the application.

For more product information, visit us on the web at www.ZyXEL.com



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