



# ZyWALL USG1100/1900/2200

## Unified Security Gateway

As a business grows, so does the scope of its network. New users and devices connect at an ever-increasing rate. Add to this an array of applications, like cloud-based services, and one begins to understand the challenge facing today's enterprises. It's a continuous cycle — demand for high network availability increases alongside the need for more Internet access, not to mention additional user controls and improved security measures.

The ZyWALL USG Series is a line of UTM firewalls designed to meet this challenge head-on with high availability, anti-malware protection, access management, and consolidated policy enforcement for medium- to large-sized businesses and campuses. The Zyxel USG Series provides WAN and VPN load balancing, failover to ensure nonstop business communications, and our Hotspot Management solution for secure network connectivity with easy access.



UTM Firewall for medium- and large-sized businesses and campuses



Anti-malware protection with Anti-Virus, Anti-Spam, Content Filtering 2.0, IDP, Application Patrol and SSL inspection



Robust SSL, IPSec and L2TP over IPSec VPN connectivity and VPN High Availability (HA)



Express Mode with advanced Cloud Query technology



Hotspot management is supported



SecuReporter, cloud-based intelligent analytics and report service



## Benefits

### Powerful, robust and always-online

ZyWALL USG Series delivers high-access quality to help businesses satisfy the demand for always-online communications. For internal deployments, the USG Series provides active-passive High-Availability (HA) service to support device or connection failover. With Device HA Pro service, the ZyWALL USG Series also supports instant failover, so connections are always maintained when a failover event occurs.

For external deployments, the ZyWALL USG Series features multi-WAN load balancing/failover and a comprehensive mobile broadband USB modem support list for WAN backup operations. The ZyWALL USG Series also supports IPSec load balancing and failover, providing additional resilience for mission-critical VPN failover with VTI Interface deployments.

### Engineered Express Mode. Uncompromising performance.

ZyWALL USG series supports Express Mode with advanced Cloud Query technology which has 30 billion of file ID in Zyxel security cloud's database and constantly adapts new malware data every minute via Threat Intelligence Machine Learning. This innovative design improves the anti-malware detection efficiency, enables it to verify the file ID within seconds to get the most optimal threat detection, so that the ZyWALL USG series can gain higher throughput performance.

### Impregnable protection and optimization

ZyWALL USG Series thoroughly protects networks with industry-leading firewall, Anti-Malware/Virus, Anti-Spam, Content Filtering, IDP, and Application Patrol functionality. Regulate unauthorized use of Web applications over your network, such as Facebook, Google apps, and Netflix, among others. Zyxel security measures are enhanced with SSL Inspection, blocking threats hidden in SSL-encrypted connections while facilitating deeper policy enforcement. Furthermore, newly improved Content Filtering 2.0 enhances HTTPS Domain Filter, Browser SafeSearch, and Geo IP Blocking for an array of security enhancements to ensure clean Web connections.

### Best TCO for access expansion

People expect network access regardless of time or location. As a result, hotspots are in demand in an ever-expanding assortment of locations. The ZyWALL USG1100/1900/2200 integrated with Zyxel AP Controller technology enables users to manage APs from a centralized user interface. In addition, Zyxel Hotspot Management delivers a unified solution for business networks with user-friendly tools like Billing System, Walled Garden, Multiple Authentication, 3rd Party Social Login and User Agreement. With ZyWALL USG Series, businesses can now deploy or expand a managed WiFi network with minimal effort.

### Enhanced visibility

SecuReporter is a cloud-based intelligent analytics and report service with threat data collection and correlation capabilities. USG is bundled with 1-year SecuReporter service, giving 7 days of log retention and visual analytics. SecuReporter provides multiple analytical perspectives on overall Threat Trend, Spam Mail, Unsafe Website Categories, Most Frequent Security Threat (Malware, IDP, Spam) and user behaviors, delivering holistic visibility for security professionals.

### Swift and secure firmware upgrades

Locating firmware updates — not to mention identifying correct versions for your device and managing their installation — can be a complex and confusing ordeal. The ZyWALL USG Series solves this with its new Cloud Helper service. Cloud Helper provides a simple step to look for up-to-date firmware information. New firmware is immediately made available upon release from our official database to ensure its authenticity and reliability.

### 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.

# ZyWALL USG Series Quick Finder



Model	USG40 /40W	USG60 /60W	USG110	USG210	USG310	USG1100	USG1900	USG2200
<b>Description</b>	SB		SMB			MB		
<b>Firewall throughput (Mbps)</b>	400	1,000	1,600	1,900	5,000	6,000	7,000	25,000
<b>Max. concurrent sessions</b>	50,000	100,000	150,000	200,000	500,000	1,000,000	1,000,000	1,500,000
<b>UTM throughput (AV and IDP, Mbps)<sup>*1</sup></b>	60	110	450	500	550	650	710	1,100
<b>IDP throughput (Mbps)</b>	95	150	590	660	900	1,000	1,200	2,000
<b>AV throughput (Mbps)<sup>*1</sup></b>	80	150	450	500	890	990	1,100	2,000
<b>Amazon VPC<sup>*2</sup></b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Microsoft Azure</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Cloud CNM SecuReporter<sup>*3</sup></b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Hotspot Management<sup>*3</sup></b>	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Device HA Pro</b>	-	-	Yes	Yes	Yes	Yes	Yes	Yes

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

\*2: ZyWALL/USG still be able to support by CLIs

\*3: With Zyxel service license to enable or extend the feature capacity

## Services and Licenses

The ZyWALL USG1100/1900/2200 provides a complete feature set to perfectly fit different business requirements as well as to enable the maximum performance and security with an all-in-one appliance. Comprehensive network modularity also empowers IT professionals to customize the system to meet their individual needs.



Anti-Virus



Anti-Spam



Intrusion Detection & Prevention



Application Patrol



SecuReporter



AP Controller



Hotspot Management

## Feature Highlights

### Multi-WAN & Mobile broadband

The ZyWALL USG Series provides non-stop Internet uptime with multi-WAN and mobile broadband support. Multi-WAN works with two or more Ethernet WAN connections for active-active WAN load balancing or active-passive failover. Comprehensive mobile broadband USB modems are also supported for WAN backup.

### 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.

### Cloud Helper

The Cloud Helper provides friendly firmware upgrades so users don't need to worry about how and where to receive the latest firmware information and files. With just a few steps to download and update the firmware directly, it's very convenient and time-efficient.

### Zyxel One Network utility

The ZON utility features smart functions to assist network management for administrators to perform batch firmware upgrade for devices, remote reboot of devices such as ceiling APs or redirect to device GUI for further configuration with just a click. These troublesome but necessary management tasks can now be easily done through just one platform for WiFi APs, switches and gateways.

### SSL inspection

SSL inspection enables the ZyWALL USG Series to provide not only comprehensive security, but also deeper policy enforcement. It enables the USG's Application Patrol, IDP, Content Filtering 2.0 and Anti-Virus to inspect traffic in SSL encrypted connections and block threats that usually go unseen.

### 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 cryptographic, the Zyxel USGs provide the most secure Policy-based and route-based VPN for business communications.

### Integrated WLAN controller

The integrated WLAN controller supports CAPWAP, and enables centralized authentication and access management of multiple APs in the network. The ZyWALL USG1100/1900/2200 can manage 2 APs by default, and up to 1,026 APs with license upgrade.

### PCI-DSS compliance

The ZyWALL USG Series conforms to the Payment Card Industry Data Security Standard (PCI DSS), which is a global cardholder data security standard influential to a very broad group of businesses. The PCI DSS Compliance applies to all entities such as merchants, card issuers, processors, and service providers involve in payment card processing tasks like validation, transmission and storage of cardholder data.

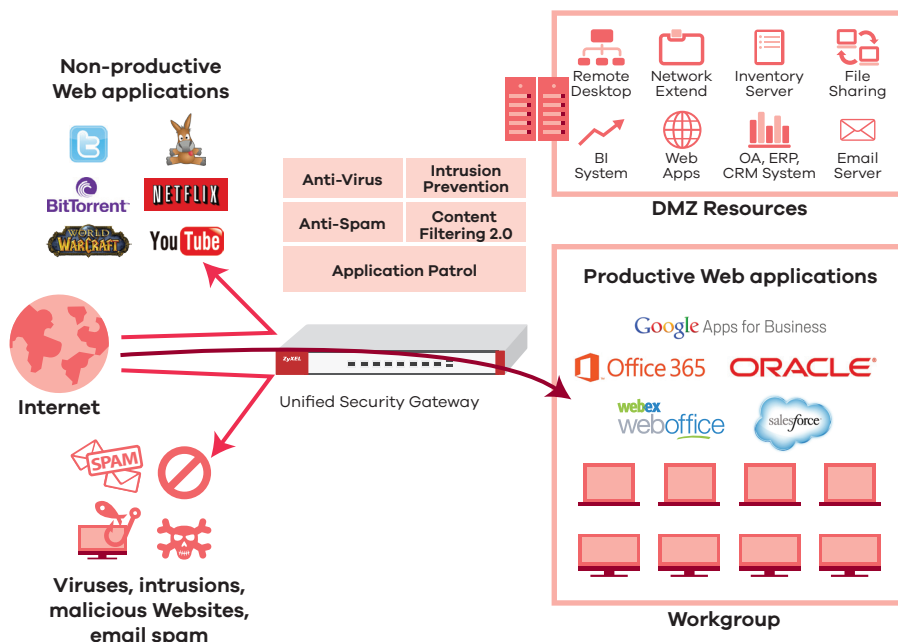
### Security analytics and report

SecuReporter features a suite of analysis and reporting tools, including network security threats identification and visual analysis on security services statistics, security events, application usage, website usage, and traffic usage, and device health status. Users can also generate customized reports on-demand and setup a daily, weekly, or monthly schedule.

# Application Diagram

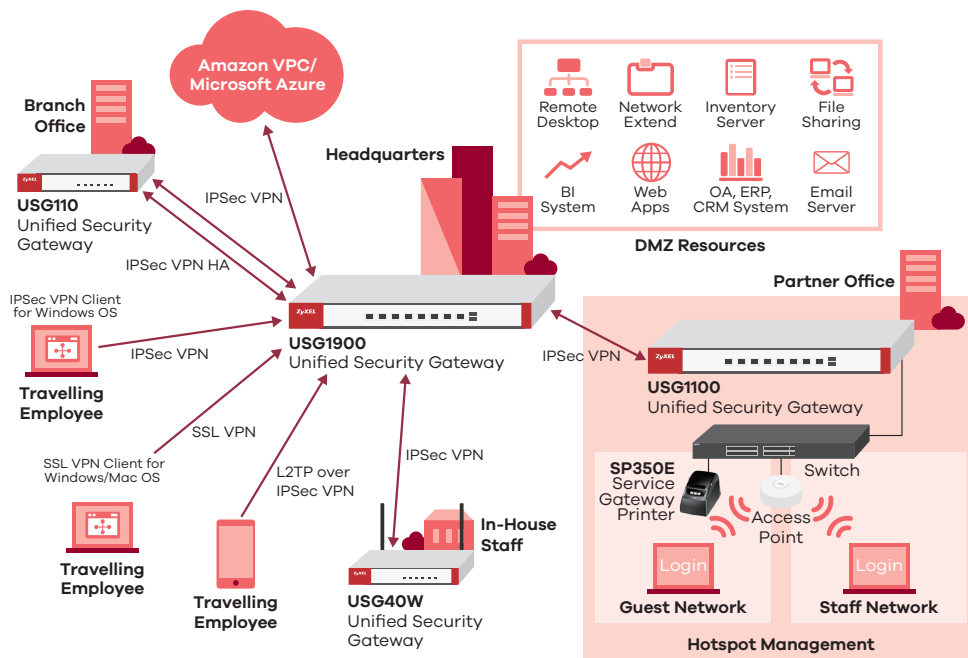
## Anti-malware protection and application optimization

- Enabling Anti-Virus, Anti-Spam and Intrusion Prevention, business networks gain deep, extensive protection against all types of malware threats
- Content Filtering 2.0 enables businesses to deny access to Websites that are malicious or not business-related
- Application Patrol 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 ZyWALL USG Series 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 ZyWALL USG Series can also establish an IPSec VPN connection with Amazon VPC/Microsoft Azure for secured access to a variety of cloud-based applications



## Hotspot management

- High speed internet access
- Tier of service
- Log record for regulatory compliance
- Premium security control
- Various Network access control (free or paid access, social login)

# Specifications

Model	USG1100	USG1900	USG2200
Product photo			
<b>Hardware Specifications</b>			
Interfaces	8 x GbE (configurable)	8 x GbE (configurable)	12 x GbE (configurable), 4 x SFP (configurable), 2 x 10G Combo
USB ports	2	2	2
Console port	Yes (DB9)	Yes (DB9)	Yes (DB9)
Rack-mountable	Yes	Yes	Yes
Fanless	-	-	-
<b>System Capacity &amp; Performance<sup>1</sup></b>			
SPI firewall throughput (Mbps) <sup>2</sup>	6,000	7,000	25,000
VPN throughput (Mbps) <sup>3</sup>	800	900	2,500
IDP throughput (Mbps) <sup>4</sup>	1,000	1,200	2,000
AV throughput (Mbps) <sup>4</sup>	990	1,100	2,000
UTM throughput (AV and IDP, Mbps) <sup>4</sup>	650	710	1,100
Max. TCP concurrent sessions <sup>5</sup>	1,000,000	1,000,000	1,500,000
Max. concurrent IPSec VPN tunnels <sup>6</sup>	1,000	2,000	3,000
Concurrent SSL VPN users (default/max.) <sup>7</sup>	250/500	250/750	250/1,000
VLAN interface	128	128	256
Concurrent devices logins (default/max.) <sup>7,8</sup>	800/1,500	1,500/2,000	2,000/5,000
<b>Speedtest Performance</b>			
SPI firewall throughput (Mbps) <sup>9</sup>	930	930	930
<b>WLAN Management</b>			
Managed AP number (default/max.) <sup>7</sup>	2/130	2/130	2/1026
Recommend max. AP in 1 AP Group	60	60	300
<b>Security Service</b>			
Anti-Virus (AV) <sup>7</sup>	Yes	Yes	Yes
Intrusion Detection and Prevention (IDP) & Application Patrol <sup>7</sup>	Yes	Yes	Yes
Anti-Spam <sup>7</sup>	Yes	Yes	Yes
Content Filtering (CF 2.0) <sup>7,10</sup>	Yes	Yes	Yes
SecuReporter Premium <sup>7</sup>	Yes	Yes	Yes
<b>Key Software Features</b>			
VPN	IKEv2, IPSec, SSL, L2TP/IPSec	IKEv2, IPSec, SSL, L2TP/IPSec	IKEv2, IPSec, SSL, L2TP/IPSec
SSL (HTTPS) inspection	Yes	Yes	Yes
2-Factor Authentication	Yes	Yes	Yes
EZ Mode	-	-	-
Hotspot Management <sup>7</sup>	Yes	Yes	Yes
Ticket printer support <sup>11</sup> / Support Q'ty (max.)	Yes (SP350E)/10	Yes (SP350E)/10	Yes (SP350E)/10
Microsoft Azure	Yes	Yes	Yes
Amazon VPC	Yes	Yes	Yes
Device HA Pro	Yes Activate once registered	Yes Activate once registered	Yes Activate once registered
Link Aggregation (LAG)	Yes	Yes	-



Model	USG1100	USG1900	USG2200	
<b>Power Requirements</b>				
<b>Included accessories</b>	100 - 240 V AC, 50/60 Hz, 1.3 A max.	100 - 240 V AC, 50/60 Hz, 1.3 A max.	2 x AC-DC redundant power supply 110 - 240 V AC, 50/60 Hz, 2.5 A max.	
<b>Max. power consumption (watt)</b>	58.5	58.5	119	
<b>Heat dissipation (BTU/hr)</b>	199.61	199.61	406.045	
<b>Physical Specifications</b>				
<b>Item</b>	<b>Dimensions (WxDxH)(mm/in.)</b>	430 x 250 x 44/ 16.93 x 9.84 x 1.73	430 x 250 x 44/ 16.93 x 9.84 x 1.73	438.5 x 500 x 89/ 17.26 x 19.69 x 3.50
	<b>Weight (kg/lb.)</b>	3.3/7.28	3.3/7.28	12.45/27.45
<b>Packing</b>	<b>Dimensions (WxDxH)(mm/in.)</b>	519 x 392 x 163/ 20.43 x 15.43 x 6.42	519 x 392 x 163/ 20.43 x 15.43 x 6.42	795 x 600 x 215/ 31.3 x 23.62 x 8.46
	<b>Weight (kg/lb.)</b>	4.8/10.58	4.8/10.58	18.12 (with DUT)/39.95
<b>Included accessories</b>	• Power cord • Rack mounting kit	• Power cord • Rack mounting kit	• Power cord x 2 • Rack mounting (slide) kit	
<b>Environmental Specifications</b>				
<b>Operating</b>	<b>Temperature</b>	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
	<b>Humidify</b>	10% to 90% (non-condensing)	10% to 90% (non-condensing)	10% to 90% (non-condensing)
<b>Storage</b>	<b>Temperature</b>	-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
	<b>Humidify</b>	10% to 90% (non-condensing)	10% to 90% (non-condensing)	10% to 90% (non-condensing)
<b>MTBF (hr)</b>		560,811.5	560,811.5	280,490
<b>Certifications</b>				
<b>EMC</b>	FCC Part 15 (Class A), CE EMC (Class A), C-Tick (Class A), BSMI	FCC Part 15 (Class A), CE EMC (Class A), C-Tick (Class A), BSMI	FCC Part 15 (Class A), IC, CE EMC (Class A), C-Tick (Class A), BSMI	
<b>Safety</b>	LVD (EN60950-1), BSMI	LVD (EN60950-1), BSMI	LVD (EN60950-1), BSMI	

Note:

\*: This matrix with firmware ZLD4.38 or later.

\*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 (with Express Mode) 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 IxLoad testing tool.

\*6: Including Gateway-to-Gateway and Client-to-Gateway.

\*7: With Zyxel service license to enable or extend the feature capacity.

\*8: This is the recommend maximum number of concurrent logged-in devices.

\*9: The Speedtest result is conducted with 1 Gbps WAN link in real world and it is subject to fluctuate due to quality of the ISP link.

\*10: SafeSearch function in CF need to enable SSL inspection firstly and not for small business models.

\*11: With Hotspot Management license support.

## Features Set

### Software Features

#### Firewall

- ICSA-certified corporate firewall
- 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
- RPS-enabled for desirable performance in chaotic environments

#### IPv6 Support

- 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 Patrol
- Content Filtering 2.0
- Anti-Virus, Anti-Malware
- Anti-Spam

#### IPSec VPN

- Authentication: SHA-2 (512-bit), SHA-1 and MD5
- Encryption: AES (256-bit), 3DES and DES
- Support route-based VPN Tunnel Interface (VTI)
- Key management: manual key, IKEv1 and IKEv2 with EAP
- Perfect forward secrecy (DH groups) support 1, 2, 5, 14, 15
- 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
- Support iOS L2TP/IKE/IKEv2 VPN Client provision

#### SSL VPN

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

#### 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 Patrol

- Granular control over the most important applications
- Identifies and controls application behavior
- Supports over 15 application categories
- Application bandwidth management
- Supports user authentication
- Real-time statistics and reports
- IDP/ADP support on social networks such as likes and posts on Facebook

#### Anti-Virus

- Stream-based scan engine (Stream Mode)
- HTTP, FTP, SMTP, POP3, and IMAP4 protocol supported
- No file size limitation
- Automatic signature updates
- Newly added hash-based cloud query technology (Express Mode)
- Works with local cache and over 30 billion database and still growing
- HTTP, HTTPS, and FTP protocol supported
- Multiple file types supported

#### 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 2.0

- 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
- HTTPs Domain filtering
- GeolP Blocking
- Monitors traffics based on country policy
- URL blocking and keyword blocking
- Supports to SafeSearch (SSL inspection must be enabled for this function)

#### SSL Inspection

- Certificate Trust Chain validation
- Support both inbound and outbound inspection
- Support Anti-Virus/Content Filtering 2.0/Application Patrol/IDP inspection
- Support TLS 1.0/1.1/1.2
- Visible bypass list

#### Unified Security Policy

- Unified policy management interface
- Supported UTM features: Anti-Virus, Anti-Spam, IDP, Content Filtering 2.0, Application Patrol, firewall (ACL)
- 3-tier configuration: object-based, profile-based, policy-based
- Policy criteria: zone, source and destination IP address, user, time
- Pre-defined UTM profiles for different user groups

#### WLAN Management

- Support [AP controller version 3.40](#)
- Supports auto AP FW update
- Wireless L2 isolation
- Scheduled WiFi service
- Dynamic Channel Selection (DCS)
- Client steering for 5GHz priority and sticky client prevention
- Auto healing provides a stable and reliable coverage
- IEEE 802.1x authentication
- Captive portal Web authentication
- Customizable captive portal page
- RADIUS authentication
- WiFi Multimedia (WMM) wireless QoS
- CAPWAP discovery protocol
- Multiple SSID with VLAN
- Supports ZyMesh
- Support AP Forward Compatibility

#### Hotspot Management

- Integrated account generator, Web-based authentication portal and billing system
- Supports external RADIUS servers
- Per account bandwidth management
- User agreement login
- SP350E Service Gateway Printer enables one-click account and billing generation
- Built-in billing system
  - Time-to-finish accounting mode
  - Accumulation accounting mode
- Supports PayPal online payment
- Marketing tool
  - Advertisement link
  - Walled garden
  - Portal page
- Billing Replenish

#### Mobile Broadband

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

\* For specific models supporting the 3G and 4G dongles on the list, please refer to the Zyxel product page at 3G dongle document.



## 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
- Bandwidth limit per user
- Bandwidth limit per IP
- GRE
- BGP

## Zyxel One Network

- ZON Utility
  - IP configuration
  - Web GUI access
  - Firmware upgrade
  - Password configuration
  - Location and System Name update

- Smart Connect
  - Discover neighboring devices
  - One-click remote management access to the neighboring Zyxel devices

## 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
- Supports 2-Factor authentication

## Device High Availability Pro (HA Pro)

- Device failure detection and notification
- Supports ICMP and TCP ping check
- Link monitoring
- Configuration auto-sync
- Dedicated Heartbeat Link
- Instant handover
- NAT/Firewall/VPN Sessions synchronization

## System Management

- Supports generating SHA2 Certificate
- Role-based administration
- Multiple administrator logins
- Multi-lingual Web GUI (HTTPS and HTTP)
- Command line interface (console, Web console, SSH and telnet)
- Cloud CNM SecuManager
- SNMP v1, v2c, v3
- System configuration rollback
- Firmware upgrade via FTP, FTP-TLS and Web GUI
- Dual firmware images
- Supports Cloud Helper

## 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
- Cloud-based analytics and reporting with SecuReporter

## Licenses

### Security

Product	Anti-Virus	Application Patrol & IDP	Content Filtering 2.0	Anti-Spam	SecuReporter Premium
USG1100	1 year/2 years	1 year/2 years	1 year/2 years	1 year/2 years	1 year/2 years
USG1900	1 year/2 years	1 year/2 years	1 year/2 years	1 year/2 years	1 year/2 years
USG2200	1 year/2 years	1 year/2 years	1 year/2 years	1 year/2 years	1 year/2 years

1. Zyxel USGs can be purchased with bundled 12-month standard license (Anti-Virus, Anti-Spam, Content Filtering 2.0, IDP and SecuReporter) with extra 1-month trial.

2.Licenses can be easily activated, renewed and managed at myZyxel

3.License bundles may vary according to region. Please contact your local sales representative for more information.

### Connectivity & Industrial Solution

Product	SSL VPN Tunnels	SSL VPN Client*	IPSec VPN Client
USG1100	Add 5/10/50 tunnels	For 1/5/10 client(s)	For 1/5/10/50 client(s)
USG1900	Add 5/10/50 tunnels	For 1/5/10 client(s)	For 1/5/10/50 client(s)
USG2200	Add 5/10/50 tunnels	For 1/5/10 client(s)	For 1/5/10/50 client(s)

\*: Support OS: MAC OS 10.7 or later

Product	Concurrent Device Upgrade*	Hotspot Management*	Managed APs
USG1100	100/300 nodes	1 year/One-time	Add 2/4/8/64 APs
USG1900	100/300 nodes	1 year/One-time	Add 2/4/8/64 APs
USG2200	100/300 nodes	1 year/One-time	Add 2/4/8/64 APs

\*: With firmware ZLD 4.20 or later

## Access Point Compatibility List

Product	Unified AP	Unified Pro AP	
<b>Models</b>	<ul style="list-style-type: none"> <li>• NWA5121-NI</li> <li>• NWA5121-N</li> <li>• NWA5123-NI</li> <li>• NWA5123-AC</li> </ul>	<ul style="list-style-type: none"> <li>• NWA5123-AC HD</li> <li>• NWA5301-NJ</li> <li>• WAC5302D-S</li> <li>• WAX510D*</li> </ul>	<ul style="list-style-type: none"> <li>• WAC6103D-I</li> <li>• WAC6303D-S</li> <li>• WAC6502D-E</li> <li>• WAC6502D-S</li> <li>• WAC6503D-S</li> <li>• WAC6552D-S</li> <li>• WAC6553D-E</li> <li>• WAX650S*</li> </ul>
Functions			
<b>Central management</b>	Yes	Yes	
<b>Auto provisioning</b>	Yes	Yes	
<b>Data forwarding</b>	Local bridge	Local bridge/Data tunnel	
<b>ZyMesh</b>	Yes	Yes	

\*: From APC3.0, commercial gateways supporting APC technology are able to recognize APs with FW release higher than APC3.0 as Forward Compatible APs. Resellers can introduce newly-available Zyxel APs with basic features supported without upgrading any new controller firmware.

## Accessories

### SecuExtender Software

Item	Description	Supported OS
<b>IPSec VPN Client*</b>	IPSec VPN client software for the ZyWALL and USG Series with Easy VPN for zero-configuration remote access	<ul style="list-style-type: none"> <li>• Windows XP (32-bit)</li> <li>• Windows Server 2003 (32-bit)</li> <li>• Windows Server 2008 (32/64-bit)</li> <li>• Windows Vista (32/64-bit)</li> <li>• Windows 7 (32/64-bit)</li> <li>• Windows 8 (32/64-bit)</li> <li>• Windows 10 (32/64-bit)</li> </ul>
<b>SSL VPN Client*</b>	Secured VPN connection between PC/MAC and ZyWALL Firewall	<ul style="list-style-type: none"> <li>• Windows 7 (32/64-bit)</li> <li>• Windows 8/8.1 (32/64-bit)</li> <li>• Windows 10 (32/64-bit)</li> <li>• MAC OS 10.7 or later</li> </ul>

\*: 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.

### Service Gateway Printer

Model	Feature	Supported Model
<b>SP350E</b>	<ul style="list-style-type: none"> <li>• Buttons: 3</li> <li>• Paper roll width: 58 (+0/-1) mm</li> <li>• Interface: 10/100 Mbps RJ-45 port</li> <li>• Power input: 12 V DC, 5 A max.</li> <li>• Item dimensions (WxDxH): 176 x 111 x 114 mm (6.93" x 4.37" x 4.49")</li> <li>• Item weight: 0.8 kg (1.76 lb.)</li> </ul>	<ul style="list-style-type: none"> <li>• VPN100</li> <li>• VPN300</li> <li>• USG60</li> <li>• USG60W</li> <li>• USG110</li> <li>• USG210</li> <li>• USG310</li> <li>• USG1100</li> <li>• USG1900</li> <li>• USG2200 Series</li> <li>• ZyWALL110</li> <li>• ZyWALL310</li> <li>• ZyWALL1100</li> </ul>

Note: Hotspot management licenses required

### Transceivers (Optional)

Functions	Model	Speed	Connector	Wavelength	Max. Distance	DDMI
<b>USG2200 Series</b>	SFP10G-SR*	10-Gigabit SFP+	Duplex LC	850 nm	300 m (328 yd)	Yes
<b>USG20-VPN/20W-VPN</b>	SFP10G-LR*	10-Gigabit SFP+	Duplex LC	1310 nm	10 km (10936 yd)	Yes
<b>VPN50/100/300</b>	SFP-1000T	Gigabit	RJ-45	-	100 m (109 yd)	-
	SFP-LX-10-D	Gigabit	LC	1310 nm	10 km (10936 yd)	-
	SFP-SX-D	Gigabit	LC	850 nm	550 m (601 yd)	-

\*: Only USG2200 series supports 10-Gigabit SFP+





For more product information, visit us on the web at [www.zyxel.com](http://www.zyxel.com)

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Datasheet [ZyWALL USG1100/1900/2200](#)