



# ZyWALL 110/310/1100 and USG20(W)-VPN VPN Firewall

Networking brings convenience and efficiency to business environments; however it introduces significant security and safety concerns at the same time. Today, businesses or branch offices really need a complete yet affordable solution that not only bridges communications between two or more remote sites, but also connects multiple VPNs and ensures data security to prevent the network from threats.

## Benefits

### Safer, more reliable VPN connections

Faster processors today have vastly boosted the capabilities of attackers to decrypt VPN tunnels. Legacy VPN cryptographic algorithms like Message Digest 5 (MD5) and Secure Hash Algorithm 1 (SHA-1) are no longer sufficient to guarantee secure outbound communications. With supports to the more advanced Secure Hash Algorithm 2 (SHA-2), the VPN Firewall provides the safest VPN connections in its class to ensure maximum security for business communications.

The complete range of ZyXel VPN Firewalls deliver reliable, non-stop VPN service with multi-WAN load balancing and failover safety with USB 3G/4G support as a backup WAN, providing a non-stop internet connection service.



4 step setup wizard for easy remote access with robust SSL, IPsec, and L2TP over IPsec VPN connectivity.



Auto-provisioned client-to-site IPsec setup with Easy VPN



More secure VPN connections with SHA-2 cryptographic



Express Mode with advanced Cloud Query technology (Only compatible with ZyWALL110/310/1100)



Enabled hospitality features with hotspot, AP management with support for WiFi 6 feature



SecuReporter, cloud-based intelligent analytics and report service



To support dynamic, mobile business operations in today's BYOD (bring your own device) business environments, the VPN Firewalls offer unlimited business mobility with Layer-2 Tunneling Protocol (L2TP) VPN for mobile devices. The VPN Firewall supports L2TP/IPSec VPN on a wide variety of mobile Internet devices running the iOS, Android and Windows mobile platforms.

### **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.

### **Zero-configuration remote access**

Virtual private networks provide businesses a secure and convenient way of sharing company resources with partners, customers, or employees on business trips. Yet typical VPN solutions are hard for non-technical users to configure, which greatly reduces their usability and convenience. The Zyxel VPN Firewalls feature Easy VPN to provide auto-provisioned client-to-site IPSec VPN setup. A wizard is available with the Zyxel IPSec VPN client-software that automatically retrieves the VPN configuration file from the remote Zyxel VPN Firewall and completes the IPSec VPN setup in 3 simple steps. Zyxel's Easy VPN lowers administration effort and allows partner, customers, or traveling employees to access company servers, email, or data centers easily and securely.

### **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 Zyxel VPN firewalls integrated with Zyxel AP Controller technology enables users 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 series businesses can now deploy or expand a managed WiFi network with minimal effort.

### **Comprehensive Connectivity**

ZyWALL series not only can protect your network, but it also supports Hospitality features including Hotspot, AP management with integration for WiFi 6 feature, and concurrent device upgrade. You can buy time-based bundle or quantity-based license to optimize your initial investment and maximize the scale in your environment.

### **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 Zyxel VPN Firewall 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.

### **Simplified management procedure**

Managing complex configuration settings can be confusing and time-consuming. Zyxel USG 20-VPN and USG20W-VPN provides an "easy mode" setting in the GUI for entry-level and SOHO users. Easy mode provides an icon-based feature set and attractive dashboard to simplify management and monitoring of the device. Application and function settings also have integrated wizards for user-friendly setup. Zyxel USG 20-VPN and USG20W-VPN easy mode helps entry-level users and SOHO users effortlessly take advantage of high-speed and secure networking.

### **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.

### **Enhanced visibility**

SecuReporter is a cloud-based intelligent analytics and report service with 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.

## VPN Firewall Quick Finder



Model	USG20(W)-VPN	ZyWALL 110	ZyWALL 310	ZyWALL 1100
Description	SB	SB	SMB	SMB
Firewall Throughput (Mbps)	350	1,600	5,000	6,000
Max. Concurrent Sessions	20,000	150,000	500,000	1,000,000
VPN throughput (Mbps)	90	400	650	800
Max. Concurrent IPSec VPN Tunnels	10	100	300	1,000
Content filtering (CF 2.0)*	Yes	Yes	Yes	Yes
Amazon VPC*1	Yes	Yes	Yes	Yes
Microsoft Azure	Yes	Yes	Yes	Yes
Cloud CNM SecuReporter*	Yes	Yes	Yes	Yes
Hotspot Management*	-	Yes	Yes	Yes
Device HA Pro	-	Yes	Yes	Yes

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

\*1: ZyWALL/USG still be able to support by CLIs

## Subscription Services

The Zyxel VPN Firewall Series 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



Content  
Filtering



SecuReporter



AP Controller



Hotspot  
Management

# Key Applications

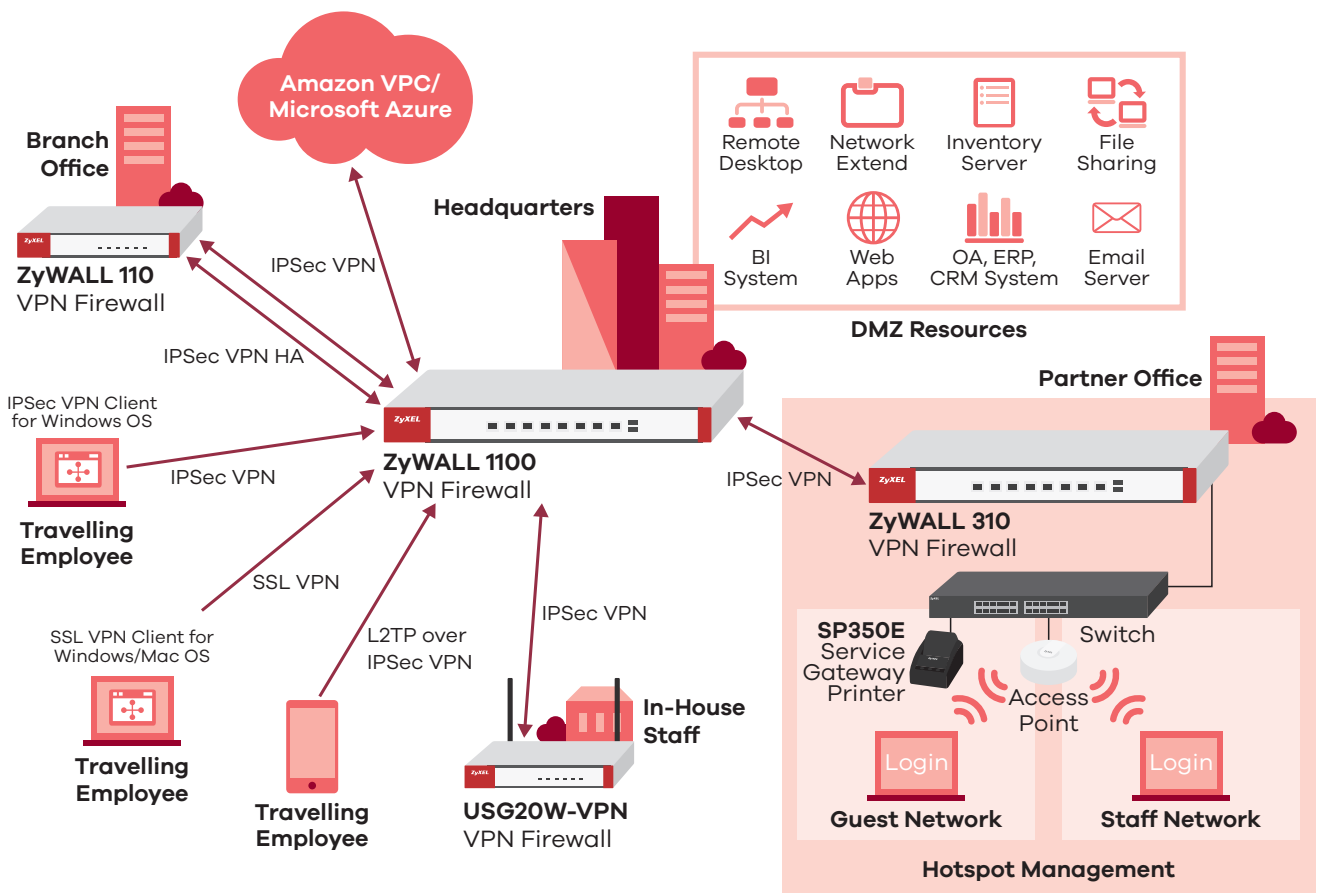
## VPN application

- High-speed, high-security communications between local servers, remote devices and cloud-hosted applications with deployments of the ZyWALL Firewalls.
- Easy-to-use, secure remote access via SSL, IPSec and L2TP over IPSec VPN.
- The headquarter ZyWALL Series can also establish an IPSec VPN connection with Amazon VPC/Microsoft Azure for secured access to leverage the benefits of cloud-based applications and to extend on-premise networks that extend into the cloud center.

## 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)

\*: Hotspot Management supports firmware ZLD4.25 or later.



# Specifications

Model	ZyWALL 110	ZyWALL 310	ZyWALL 1100	USG20-VPN	USG20W-VPN
Product photo					
<b>Hardware Specifications</b>					
Interfaces	4 x LAN/DMZ, 2 x WAN, 1 x OPT	8 (Configurable)	8 (Configurable)	4 x LAN/DMZ, 1 x WAN, 1 x SFP	4 x LAN/DMZ, 1 x WAN, 1 x SFP
USB ports	2	2	2	1	1
Console port	Yes (DB9)	Yes (DB9)	Yes (DB9)	Yes (RJ-45)	Yes (RJ-45)
Rack-mountable	Yes	Yes	Yes	-	-
<b>System Capacity &amp; Performance*<sup>1</sup></b>					
SPI firewall throughput (Mbps)* <sup>2</sup>	1,600	5,000	6,000	350	350
VPN throughput (Mbps)* <sup>3</sup>	400	650	800	90	90
VPN IMIX Throughput (Mbps)* <sup>3</sup>	144	280	315	40	40
Max. TCP concurrent sessions* <sup>4</sup>	150,000	500,000	1,000,000	20,000	20,000
Max. concurrent IPSec VPN tunnels* <sup>5</sup>	100	300	1,000	10	10
Concurrent SSL VPN users (default/max.)* <sup>6</sup>	50/150	50/150	250/500	5/15	5/15
VLAN interface	16	64	128	8	8
Concurrent devices logins (default/max.)* <sup>6*7</sup>	200/300	500/800	800/1,500	64	64
<b>Speedtest Performance</b>					
SPI firewall throughput (Mbps)* <sup>8</sup>	900	900	930	320	320
<b>WLAN Management</b>					
Managed AP number (default/max.)* <sup>6</sup>	8/40	8/72	8/136	-	-
Recommend max. AP in 1 AP Group	20	20	60	-	-
<b>Security Service</b>					
Anti-virus (AV)* <sup>6</sup>	Yes	Yes	Yes	-	-
Intrusion Detection and Prevention (IDP) & Application Patrol* <sup>6</sup>	Yes	Yes	Yes	-	-
Anti-spam* <sup>6</sup>	Yes	Yes	Yes	Yes	Yes
Content filtering (CF)* <sup>6*9</sup>	Yes	Yes	Yes	Yes	Yes
SecuReporter Premium* <sup>6</sup>	Yes	Yes	Yes	Yes	Yes
<b>Key Features</b>					
VPN	IKEv2, IPSec, SSL, L2TP/IPSec	IKEv2, IPSec, SSL, L2TP/IPSec	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	Yes	Yes
EZ Mode	Yes	-	-	Yes	Yes
Hotspot Management* <sup>6</sup>	Yes	Yes	Yes	-	-
Ticket printer support* <sup>10</sup> / Support Q'ty (max.)	Yes (SP350E)/10	Yes (SP350E)/10	Yes (SP350E)/10	-	-
Microsoft Azure	Yes	Yes	Yes	Yes	Yes
Amazon VPC	Yes	Yes	Yes	Yes	Yes
Device HA Pro	Yes	Yes	Yes	-	-
Link Aggregation (LAG)	-	Yes	Yes	-	-

Model	ZyWALL 110	ZyWALL 310	ZyWALL 1100	USG20-VPN	USG20W-VPN	
<b>Power Requirements</b>						
<b>Power input</b>	12 V DC, 3.33 A max.	110 - 240 V AC, 50/60 Hz, 1.3 A max.	110 - 240 V AC, 50/60 Hz, 1.3 A max.	12 V DC, 2.0 A max.	12 V DC, 2.0 A max.	
<b>Max. power consumption (watt)</b>	37	58.5	58.5	12	18	
<b>Heat dissipation (BTU/hr)</b>	126.25	199.61	199.61	40.92	61.38	
<b>Physical Specifications</b>						
<b>Item</b>	<b>Dimensions (WxDxH) (mm/in.)</b>	300 x 188 x 44/ 11.81 x 7.4 x 1.73	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	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
	<b>Weight (kg/lb.)</b>	2/4.41	3.3/7.28	3.3/7.28	0.88/1.94	0.94/2.06 (Antenna included)
<b>Packing</b>	<b>Dimensions (WxDxH) (mm/in.)</b>	351 x 152 x 245/ 13.82 x 5.98 x 9.65	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	276 x 185 x 98/ 10.87 x 7.28 x 3.86	276 x 185 x 98/ 10.87 x 7.28 x 3.86
	<b>Weight (kg/lb.)</b>	2.83/6.24	4.74/10.45	4.74/10.45	1.41/3.11	1.50/3.31
<b>Included accessories</b>	<ul style="list-style-type: none"> <li>• Power adaptor</li> <li>• Power cord</li> <li>• Rack mounting kit</li> </ul>	<ul style="list-style-type: none"> <li>• Power cord</li> <li>• Rack mounting kit</li> </ul>	<ul style="list-style-type: none"> <li>• Power cord</li> <li>• Rack mounting kit</li> </ul>	<ul style="list-style-type: none"> <li>• Power adapter</li> <li>• RJ-45 - RS-232 cable for console connection</li> </ul>	<ul style="list-style-type: none"> <li>• Power adapter</li> <li>• RJ-45 - RS-232 cable for console connection</li> <li>• Antenna</li> </ul>	
<b>Environmental Specifications</b>						
<b>Operating environment</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	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)	10% to 90% (non-condensing)	10% to 90% (non-condensing)
<b>Storage environment</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	-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)	10% to 90% (non-condensing)	10% to 90% (non-condensing)
<b>MTBF (hr)</b>	787,109.3	560,811.5	560,811.5	655,130	655,130	
<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), CE EMC (Class A), C-Tick (Class A), BSMI	FCC Part 15 (Class B), IC, CE EMC (Class B), RCM, BSMI	FCC Part 15 (Class B), IC, CE EMC (Class B), RCM, BSMI	
<b>Safety</b>	LVD (EN60950-1), BSMI	LVD (EN60950-1), BSMI	LVD (EN60950-1), BSMI	BSMI, UL	BSMI, UL	

\*: This matrix with firmware ZLD4.60 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 measurement are based on RFC 2544 (1,424-byte UDP packets); IMIX: UDP throughput based on a combination of 64 byte, 512 byte, and 1424 byte packet sizes.

\*4: Maximum sessions measured using the industry standard IXIA IxLoad testing tool

\*5: Including Gateway-to-Gateway and Client-to-Gateway.

\*6: With Zyxel service license to enable or extend the feature capacity.

\*7: This is the recommend maximum number of concurrent logged-in devices.

\*8: 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.

\*9: SafeSearch function in CF need to enable SSL inspection firstly and not for small business models.

\*10: With Hotspot Management license support.

## Wireless Specifications

Model	USG20W-VPN	
Standard compliance	802.11 a/b/g/n/ac	
Wireless frequency	2.4 GHz/5 GHz	
Radio	1	
SSID number	8	
Maximum transmit power (Max. total channel)	<b>US (FCC) 2.4 GHz:</b> 25 dBm, 3 antennas	
	<b>US (FCC) 5 GHz:</b> 25 dBm, 3 antennas	
	<b>EU (ETSI) 2.4 GHz:</b> 20 dBm (EIRP), 3 antennas	
	<b>EU (ETSI) 5 GHz:</b> 20 dBm (EIRP), 3 antennas	
No. of antenna	3 detachable antennas	
Antenna gain	<ul style="list-style-type: none"> <li>• 2 dBi @2.4 GHz</li> <li>• 3 dBi @5 GHz</li> </ul>	
Data rate	<ul style="list-style-type: none"> <li>• 802.11n: Up to 450 Mbps</li> <li>• 802.11ac: Up to 1300 Mbps</li> </ul>	
Frequency band	<b>2.4 GHz (IEEE 802.11 b/g/n):</b> <ul style="list-style-type: none"> <li>• USA (FCC): 2.412 to 2.462 GHz</li> <li>• Europe (ETSI): 2.412 to 2.472 GHz</li> <li>• TWN (NCC): 2.412 to 2.462 GHz</li> </ul>	<b>5 GHz (IEEE 802.11 a/n/ac):</b> <ul style="list-style-type: none"> <li>• USA (FCC): 5.150 to 5.250 GHz; 5.250 to 5.350 GHz; 5.470 to 5.725 GHz; 5.725 to 5.850 GHz</li> <li>• Europe (ETSI): 5.15 to 5.35 GHz; 5.470 to 5.725 GHz</li> <li>• TWN (NCC): 5.15 to 5.25 GHz; 5.25 to 5.35 GHz; 5.470 to 5.725 GHz; 5.725 to 5.850 GHz</li> </ul>
Receive sensitivity	<b>2.4 GHz:</b> <ul style="list-style-type: none"> <li>• 11 Mbps ≤ -87 dBm</li> <li>• 54 Mbps ≤ -77 dBm</li> <li>• HT20 ≤ -71 dBm</li> <li>• HT40 ≤ -68 dBm</li> </ul>	<b>5 GHz:</b> <ul style="list-style-type: none"> <li>• 54 Mbps ≤ -74 dBm</li> <li>• HT40, MCS23 ≤ -68 dBm</li> <li>• VHT40, MCS9 ≤ -62 dBm</li> <li>• HT20, MCS23 ≤ -71 dBm</li> <li>• VHT20, MCS8 ≤ -66 dBm</li> <li>• VHT80, MCS9 ≤ -59 dBm</li> </ul>

# Software Features

## Security Service

### 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

### Intrusion Detection and Prevention (IDP)

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

### Application Patrol

- Granular control over the most important applications
- Identifies and controls application behavior
- Supports user authentication
- Real-time statistics

### Anti-Virus

- Stream-based scan engine (Stream Mode/Express Mode)
- HTTP, FTP, SMTP, and POP3 protocol supported
- No file size limitation
- Automatic signature updates

### Anti-Spam

- Transparent mail interception via SMTP and POP3 protocols
- Spam and Phishing mail detection
- Blacklist and whitelist support
- Supports DNSBL checking

### Content Filtering

- HTTPs domain filtering
- SafeSearch support
- Whitelist websites enforcement
- URL blacklist and whitelist with keyword blocking
- Customizable warning messages and redirect URL
- Customizable Content Filtering block page

- URL categories increased to 111
- CTIRU (Counter-Terrorism Internet Referral Unit) support

## VPN

### IPSec VPN

- Encryption: DES, 3DES, AES (256-bit)
- Authentication: MD5, SHA1, SHA2 (512-bit)
- Support Route-based VPN Tunnel Interface (VTI)
- Key management: IKEv1 (x-auth, mode-config), IKEv2 (EAP, configuration payload)
- Perfect forward secrecy (DH groups) support 1, 2, 5, 14, 15-18, 20-21
- IPSec NAT traversal (NAT-T)
- Dead Peer Detection (DPD) and relay detection
- PSK and PKI (X.509) certificate support
- VPN concentrator
- Route-based VPN Tunnel Interface (VTI)
- VPN auto-reconnection
- VPN high availability (Failover, LB)
- 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-Factor authentication

## Networking

### WLAN Management

#### (ZyWALL Series support only)

- Supports AP Controller (APC) version 3.60
- Wireless L2 isolation
- Supports auto AP FW update
- Scheduled WiFi service
- Dynamic Channel Selection (DCS)
- Client steering for 5 GHz priority and sticky client prevention
- Auto healing provides a stable and reliable coverage
- Customizable captive portal page
- RADIUS authentication
- WiFi Multimedia (WMM) wireless QoS
- CAPWAP discovery protocol
- Multiple SSID with VLAN

- Supports ZyMesh
- Support AP forward compatibility
- Rogue AP Detection

### Mobile Broadband

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

### IPv6 Support

- Dual stack
- IPv4 tunneling (6rd and 6to4 transition tunnel)
- IPv6 addressing
- DNS, DHCPv6 server/client
- Bridge
- VLAN
- PPPoE
- Static/Policy route
- Session control
- Firewall and ADP
- IPSec (IKEv2 6in6, 4in6, 6in4)
- Intrusion Detection and Prevention (IDP)
- Application Patrol
- Content Filtering
- Anti-Virus, Anti-Malware
- Anti-Spam

### Connection

- Routing mode, bridge mode and hybrid mode
- Ethernet and PPPoE
- NAT and PAT
- NAT Virtual Server Load Balancing
- VLAN tagging (802.1Q)
- Virtual interface (alias interface)
- Policy-based routing (user-aware)
- Policy-based NAT (SNAT)
- Dynamic routing (RIPv1/v2 and OSPF, BGP)
- 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



## Management

### Authentication

- Local user database
- Built-in user database
- External user database: Microsoft Windows Active Directory, RADIUS, LDAP
- IEEE 802.1x authentication
- Captive portal Web authentication
- 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 with Google Authenticator as the second factor for administrator account

### System Management

- Role-based administration
- Multiple administrator logins
- Supports Cloud Helper
- Multi-lingual Web GUI (HTTPS and HTTP)
- Command line interface (console, Web console, SSH and telnet)
- SNMP v1, v2c, v3
- System configuration rollback

- Configuration auto backup
- Firmware upgrade via FTP, FTP-TLS and Web GUI
- Dual firmware images
- Cloud CNM SecuManager

### Logging/Monitoring

- Comprehensive local logging
- Syslog (send to up to 4 servers)
- Email alerts (send to up to 2 servers)
- Real-time traffic monitoring
- System status monitoring
- Built-in daily report
- Cloud CNM SecuReporter

### Zyxel One Network

- ZON Utility
  - IP configuration
  - Web GUI access
  - Firmware upgrade
  - Password configuration
- Smart Connect
  - Location and System Name update
  - Discover neighboring devices
  - One-click remote management access to the neighboring Zyxel devices

### Hotspot Management

- ZyWALL 110, ZyWALL 310, and ZyWALL 1100 support only

- 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

### Subscription Services

- Anti-Virus
- Application Patrol & IDP
- Content Filtering
- Anti-Spam
- Hotspot Management
- Managed AP
- SecuReporter Premium

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

## Licenses

### Security

Product	Anti-Virus	Application Patrol & IDP	Content Filtering	Anti-Spam	SecuReporter Premium
ZyWALL 110 ZyWALL 310 ZyWALL 1100	1 year/2 years	1 year/2 years	1 year/2 years	1 year/2 years	1 year/2 years
USG20-VPN USG20W-VPN	-	-	1 year/2 years	1 year/2 years	1 year/2 years

1. Licenses can be easily activated, renewed and managed at myZyxel.
2. License bundles may vary according to region. Please contact your local sales representative for more information.
3. ZyWALL Series provides all security services with 30-day trial.
4. USG20(W)-VPN provide Content Filtering and Anti-Spam services with 30-day trial.

### Connectivity & Industrial Solution

Product	SSL VPN Tunnels	SSL VPN Client*	IPSec VPN Client
ZyWALL 110 ZyWALL 310 ZyWALL 1100	Add 5/10/50 tunnels	For 1/5/10 client(s)	For 1/5/10/50 client(s)
USG20-VPN USG20W-VPN	Add 5/10 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* <sup>1</sup>	Managed APs
ZyWALL 110	100 nodes	1 year/One-time	Add 2/4/8 APs
ZyWALL 310	100/300 nodes	1 year/One-time	Add 2/4/8 APs
ZyWALL 1100	100/300 nodes	1 year/One-time	Add 2/4/8/64 APs
USG20-VPN	-	-	-
USG20W-VPN	-	-	-

\*: With firmware ZLD4.20 or later

\*1: Hotspot Management supports for ZyWALL 310 and ZyWALL 1100 in firmware ZLD4.20 or later; and for ZyWALL 110 in firmware ZLD4.25 or later.

## Access Point Compatibility List

Product	Unified AP	Unified Pro AP
<b>Models</b>	<ul style="list-style-type: none"> <li>• NWA5301-NJ</li> <li>• NWA5121-NI</li> <li>• NWA5123-AC HD</li> <li>• NWA5123-AC</li> <li>• NWA5123-NI</li> <li>• WAC5302D-S</li> </ul>	<ul style="list-style-type: none"> <li>• WAC510D</li> <li>• WAC5302D-Sv2*</li> <li>• WAC500*</li> <li>• WAC500H*</li> </ul>
		<ul style="list-style-type: none"> <li>• WAC6103D-I</li> <li>• WAC6503D-S</li> <li>• WAC6502D-S</li> <li>• WAC6303D-S</li> <li>• WAC6553D-E</li> <li>• WAC6552D-S</li> </ul>
		<ul style="list-style-type: none"> <li>• WAC6502D-E</li> <li>• WAX650S</li> <li>• WAX610D*</li> </ul>
<b>Functions</b>		
<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
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"> <li>• Windows Server 2016</li> <li>• Windows Server 2019</li> <li>• Windows 7 (32/64-bit)</li> <li>• Windows 8 (32/64-bit)</li> <li>• Windows 10 (32/64-bit)</li> </ul>
SSL VPN Client*	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 (32/64-bit)</li> <li>• Windows 10 (32/64-bit)</li> <li>• MAC OS 10.14</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
SP350E	<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: 12V DC, 5A 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>• USG FLEX 200</li> <li>• USG FLEX 500</li> <li>• USG FLEX 700</li> <li>• VPN50</li> <li>• VPN100</li> <li>• VPN300</li> <li>• VPN1000</li> <li>• USG60(W)</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>



\*: Hotspot management licenses required

### Transceivers (Optional)

Functions	Model	Speed	Connector	Wavelength
USG2200 Series	SFP10G-SR*	10-Gigabit SFP+	Duplex LC	850 nm
USG20-VPN/20W-VPN	SFP10G-LR*	10-Gigabit SFP+	Duplex LC	1310 nm
ATP100/100W/200/500/700/800	SFP-1000T	Gigabit	RJ-45	-
USG FLEX 100/100W/200/500/700	SFP-LX-10-D	Gigabit	LC	1310 nm
VPN50/100/300/1000	SFP-SX-D	Gigabit	LC	850 nm
	SFP-BX1490-10-D* <sup>1</sup>	Gigabit	LC	1310 nm(TX) 1490 nm(RX)
	SFP-BX1490-10-D* <sup>1</sup>	Gigabit	LC	1490 nm(TX) 1310 nm(RX)

Functions	Max. Distance	Optical Fiber Type	DDMI
USG2200 Series	300 m/328 yd	Multi Mode	Yes
USG20-VPN/20W-VPN	10 km/10936 yd	Single Mode	Yes
ATP100/100W/200/500/700/800	100 m/109 yd	Multi Mode	-
USG FLEX 100/100W/200/500/700	10 km/10936 yd	Single Mode	Yes
VPN50/100/300/1000	550 m/601 yd	Multi Mode	Yes
	10 km/10936 yd	Single Mode	Yes
	10 km/10936 yd	Single Mode	Yes

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

\*1: SFP-BX1310-10-D and SFP-BX1490-10-D are must used in pairs.

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