



- Robust security without sacrificing performance
- Comprehensive support to IPv6
- Robust hybrid VPN (IPSec/SSL/L2TP)
 - Zero-configuration remote access with EASY VPN
 - Support L2TP VPN on mobile device (iPhone and Android phone)
- ICSA Firewall, IPSec certification
- Content filter stops malware and Web threats
- Powerful Email security
- Non-stop Internet access with multiple WAN and 3G backups

**ZyWALL USG
20/20W/50/
100/200**
Unified Security Gateway

Security on a New Level

-The Future Is Ahead. Stay Ahead with ZyXEL USGs.

As broadband quickly becomes a necessity in the business world facing network security threats, the breaches evolve into highly sophisticated attacks to paralyze networks and to steal sensitive information. In response to such attacks, small businesses have to meet the great challenge protecting their networks.

The ZyWALL USG 20/20W/50/100/200 Series is designed for small business to provide real-time inspection and multi-layer network protection to prevent the network from threats. The USG Series embodies Stateful Packet Inspection (SPI) Firewall, Anti-Virus (AV), Intrusion Detection and Prevention (IDP), Content Filtering, Anti-Spam and VPN (IPSec/SSL/L2TP) features in one box. In addition, the USG Series not only offers complete security license to fulfill your demand but also guarantees the continuous firmware upgrades to save your cost. Incorporating comprehensive security features in the connected devices, the USG Series safeguards your organization's customer and company records, intellectual properties as well as critical resources from both external and internal threats.

Benefits

Robust security without sacrificing performance

The ZyWALL USG 20/20W/50/100/200 Series is built with a powerful Integrated High-Performance Security architecture that provides real-time inspection to prevent networks from threats without sacrificing performance. Corporate networks are not only flawlessly secured but also get significant performance enhancements on productivity and efficiency since file loading, emailing and information searching applications are processed at higher speeds.



Comprehensive IPv6 support smoothly connects future-ready networks

The ZyWALL USG Series is IPv6-ready today and is certified with "IPv6 Ready" gold logo. With IPv6 feature enabled, the USG Series ensures businesses with a smooth migration path from the IPv4-based networks to the full IPv6 infrastructure. It assigns IPv6 addresses to clients and passes the IPv6 traffics through the IPv4 environment. The USG Series supports dual-stack and IPv4 tunneling (6rd and 6to4 transition tunnel) implementations for Internet connectivity to access IPv6 applications.





ZyWALL USG 20/20W/50/ 100/200 Unified Security Gateway

EASY VPN reduces operation cost and time

Establishing a VPN tunnel is a good way to build secure connections among remote offices, branch offices and partners; however it is difficult for non-technical employees, such as sales people, to use because of complicated configuration. The ZyWALL USG Series is equipped with the "EASY VPN" solution to push configuration files to the VPN clients automatically; this eliminates the configuration efforts while securing the access at the same time. In addition, the USG Series supports L2TP VPN technology on iPhones, Android phones and many other mobile devices as L2TP VPN enables employees in remote places to connect to the headquarters with easy and free access.

Content filter for safer Web surfing

The World Wide Web has become the main target for network threats, since the Internet itself is a very effective malware delivery mechanism. With threats hidden directly in contents such as cookies, add-ons and rootkits, it makes malware exceptionally difficult to detect.

The ZyWALL USG Series content filter solution provided by Blue Coat and Commtouch, the leading providers, reduces costs and extends protection by combining a comprehensive, integrated database featuring millions of URLs, IP addresses and domains. With the solution, the USG Series not only enables real-time protection that deters emerging Web threats including malware and phishing, but also blocks or monitors certain sites to maintain employee productivity.

Powerful Email security

The ZyWALL USG Series delivers industry-leading protection, powered by Commtouch, against spam, phishing and virus-laden emails. The extremely high performance of Commtouch technology comes from the unique recurrent pattern detection (RPD) mechanism that possesses its superior capability through analyzing millions of new patterns each day (24x7x365) to block all the associated messages real-time. In addition, the ZyWALL USG applies sender-based IP reputation to remove over 80% of unwanted mails and to take advantage of the zero-hour virus outbreak protection feature, which is capable of blocking or delaying suspicious messages hours before commercial anti-virus signatures are available.

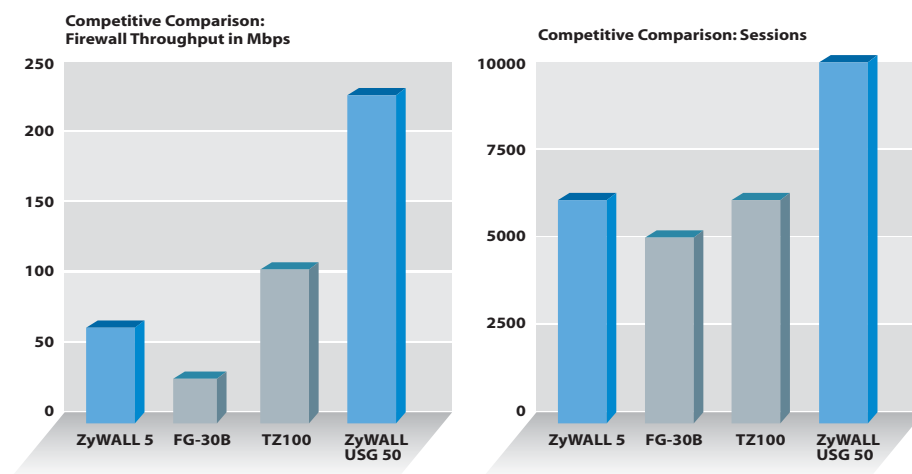
More 3G card support

The ZyWALL USG Series not only supports multiple WAN ports but also 3G networks through USB or PC cards. With 3G connections, the USG Series enables load sharing or failover to deliver highly reliable network connectivity; it also supports more 3G cards with generic driver to ensure excellent interoperability. Since the customers don't have to purchase specific 3G cards to save cost.

Key Applications

High performance

The ZyXEL USG Series is built with a powerful Integrated High Performance Security architecture. It provides real-time inspection to prevent networks from threats without sacrificing performance. Take the USG 50 as an example: its excellent performance delivers sufficient speed boost to meet all small business needs.



* Source: Performance figures from ZyXEL, SonicWALL and Fortinet Websites.

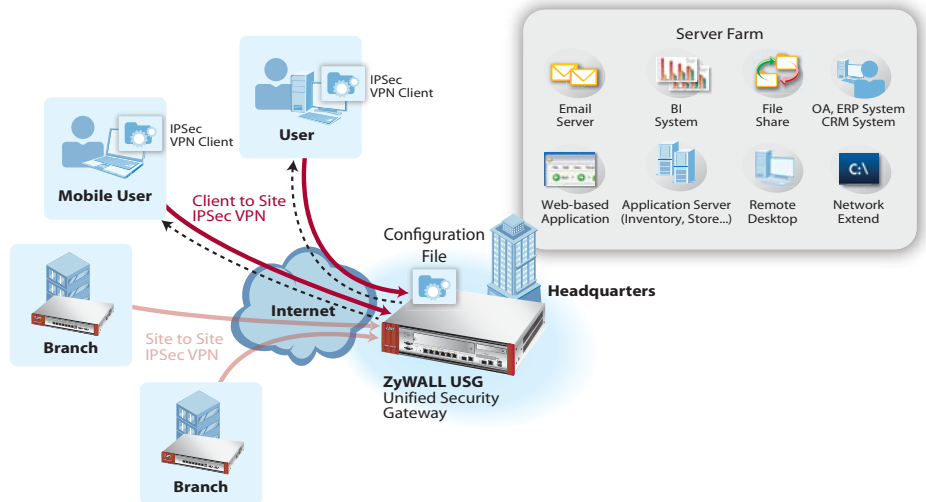
EASY VPN — zero configuration remote access

When establishing VPN tunnels, it could be quite difficult for non-technical employees to use due to the complicated configuration.

The ZyWALL USG Series is equipped with the “EASY VPN” solution to push configuration files to the VPN clients automatically; this eliminates the configuration efforts while securing the access at the same time.

Easy provisioning for ZyWALL IPSec VPN client

- USG automatically provides configuration file to the client.



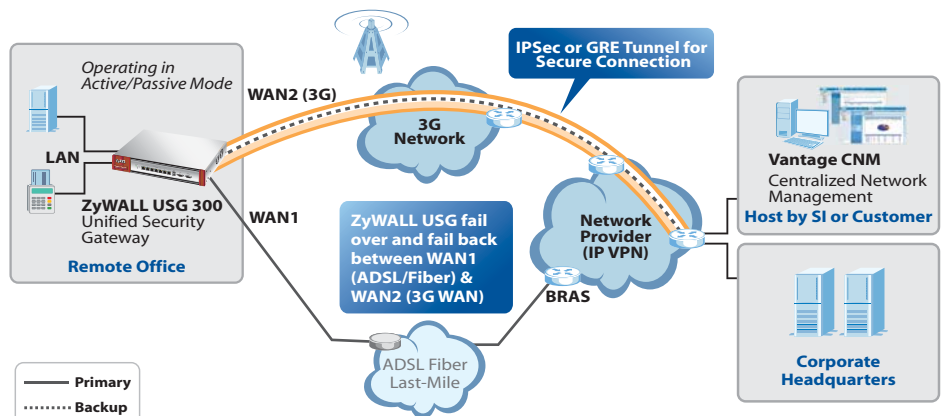
Content Filter stops malware and Web threats

The ZyWALL USG Content Filter enables businesses to protect their users and networks from malware and abuse such as spyware, phishing attacks and inappropriate P2P or IM usage. It keeps office computers from getting infected by dangerous malware and comprehensively protects business network environments.



Non-stop Internet access with multiple WAN and 3G backups

The ZyWALL USG supports not only WAN traffic load balancing to increase the overall network throughput but also flexible 3G backup as a WAN alternative to enhance network reliability.



Specifications

Model	ZyWALL USG 20	ZyWALL USG 20W	ZyWALL USG 50	ZyWALL USG 100	ZyWALL USG 200
Product Photo					
Hardware Specifications					
10/100/1000 Interfaces (Copper)	4 x LAN/DMZ, 1 x WAN	4 x LAN/DMZ, 1 x WAN	4 x LAN/DMZ, 2 x WAN	5 x LAN/DMZ, 2 x WAN	5 x LAN/DMZ, 2 x WAN, 1 x OPT
USB Ports	1	1	2	2	2
Card Slot	-	-	-	1	1
System Capacity & Performance					
SPI Firewall Throughput ^{*1} (Mbps)	175	175	225	225	250
VPN Throughput (AES) ^{*2} (Mbps)	75	75	90	90	90
UTM Throughput (AV+IDP) ^{*3} (Mbps)	-	-	30	30	40
Unlimited User Licenses	Yes	Yes	Yes	Yes	Yes
Max. Sessions ^{*4}	10,000	10,000	10,000	20,000	40,000
New Session Rate	1,000	1,000	1,200	1,200	1,200
Max. Concurrent IPSec VPN Tunnels	5	5	10	50	100
Max. Concurrent SSL VPN Users	1	1	5	25	25
Included SSL VPN Users	1	1	2	2	2
Customizable Zone	Yes	Yes	Yes	Yes	Yes
IPv6 Support	Yes	Yes	Yes	Yes	Yes
Built-in Wireless LAN					
Standards	-	802.11 b/g/n	-	-	-
Antennas	-	2 detachable	-	-	-
WiFi Throughput ^{*4} (Mbps)	-	80	-	-	-
Maximum Output Power	-	802.11b: 18.5 dBm@11 Mbps 802.11g: 15.5 dBm@54 Mbps 802.11n: 15.5 dBm@20 Mbps, 12.5 dBm@40 MHz	-	-	-
Radio Sensitivity	-	802.11b: ≤ -83 dBm@11 Mbps 802.11g: ≤ -70 dBm@54 Mbps 802.11n: ≤ -64 dBm@20 Mbps, ≤ -61 dBm@40 MHz	-	-	-
Power Requirement					
Input Voltage	100 - 240 V AC, 50/60 Hz, 1.2 A	100 - 240 V AC, 50/60 Hz, 1.2 A	100 - 240 V AC, 50/60 Hz, 1.2 A	100 - 240 V AC, 50/60 Hz, 1.2 A	100 - 240 V AC, 50/60 Hz, 1.2 A
Power Rating	15 W Max	16 W Max	17 W Max	20 W Max	20 W Max
Physical Specifications					
Item dimensions (WxDxH)(mm/in.)	216 x 140 x 33/ 8.50 x 5.51 x 1.30	216 x 140 x 33/ 8.50 x 5.51 x 1.30	242 x 167 x 35.5/ 9.53 x 6.57 x 1.40	242 x 175 x 35.5/ 9.53 x 6.89 x 1.40	242 x 175 x 35.5/ 9.53 x 6.89 x 1.40
Item weight (kg/lb.)	0.38/0.84	0.42/0.93	1.2/2.65	1.2/2.65	1.2/2.65
Packing dimensions (WxDxH)(mm/in.)	305 x 205 x 106/ 12.01 x 8.07 x 4.17	305 x 205 x 106 / 12.01 x 8.07 x 4.17	375 x 238 x 108/ 14.76 x 9.37 x 4.25	296 x 158 x 241/ 11.65 x 6.22 x 9.49	296 x 158 x 241/ 11.65 x 6.22 x 9.49
Packing weight (kg/lb.)	1/2.20	1.1/2.43	2.4/5.29	2.7/5.95	3/6.61
Environmental Specifications					
Operating temperature	0°C to 40°C/32°F to 104°F				
Storage temperature	-30°C to 60°C/-22°F to 140°F				
Operating humidity	5% to 90% (Non-condensing)				

Note:

*1: Testing Methodologies: Maximum performance based on RFC 2544 (UDP packets, 1,518 bytes).

*2: VPN (AES) throughput measured using UDP traffic with 1,424 bytes packet size, based on RFC 2544.

*3: UTM (AV+IDP) throughput measured using industry standard IXIA IxLoad test tool against HTTP protocol with 1,460 bytes packet size. Testing done with multiple flows.

*4: 11n (20 MHz), security type: WPA2-PSK

*5: Max sessions measured using industry standard IXIA IxLoad test tool.



ZyWALL USG 20/20W/50/ 100/200 Unified Security Gateway

Features

Firewall

- ICSA-certified firewall
- Routing and transparent (bridge) mode
- Zone-based access control list
- Stateful packet inspection
- User-aware policy enforcement
- SIP/H.323 NAT traversal
- ALG supports custom ports

IPv6 Support

- IPv6 Ready gold logo certified
- Dual stack
- IPv4 tunneling (6rd and 6to4 transition tunnel)
- Host/Router/Firewall

Virtual Private Network (VPN)

- ICSA-certified IPsec VPN
- Algorithm: AES/3DES/DES
- Authentication: SHA-1/MD5
- Key management: Manual key/IKE
- Perfect forward secrecy (DH groups) support 1, 2, 5
- IPsec NAT traversal
- Dead peer detection/relay detection
- PKI (X.509) certificate support
- Centralize VPN support
- Simple wizard support
- Auto reconnect VPN
- VPN HA (redundant remote VPN gateways)

SSL VPN

- Clientless secure remote access
- Support reverse proxy mode and full tunnel mode
- Unified policy enforcement
- Supports two-factor authentication
- Customizable user portal

Intrusion Detection and Prevention (IDP)^{*1} (ZyWALL 50/100/200)

- Routing and transparent (bridge) mode
- Zone-based IDP inspection
- Customizable protection profile

- Protect over 2000 attack
- Automatic signature updates
- Custom signatures
- Protocol anomaly detection and protection
- Traffic anomaly detection and protection
- Flooding detection and protection
- DoS/DDoS protection

Anti-Virus^{*2} (ZyWALL 50/100/200)

- Support Kaspersky and ZyXEL Anti-Virus
- Stream-based Anti-Virus engine
- Zone base AV protection
- HTTP/FTP/SMTP/POP3/IMAP4 protocol support
- Automatic signature updates
- No file size limitation
- Blacklist/whitelist support

Application Patrol^{*1} (ZyWALL 50/100/200)

- Application, IM/P2P, stream base media, VoIP granular access control
- Detail access control of IM (chat, file transfer, video)
- Application and IM/P2P bandwidth control
- User authentication support
- IM/P2P signature auto update
- Support more than 15 catalogs IM and P2P
- Real-Time statistical reports
- Maximum/guaranteed bandwidth

Anti-Spam

- Zone to zone protection
- Transparently intercept mail via SMTP/POP3 protocols
- POP3/SMTP port configurable
- Sender-based IP Reputation Filter
- Commtouch RPD Query
- Zero-hour Virus Outbreak Protection
- X-Header Support
- Blacklist/whitelist support
- Support DNSBL checking
- Spam tag support
- Statistics report

High Availability (ZyWALL 100/200)

- Active-Passive mode
- Device failure detection and notification
- Support ICMP and TCP ping check
- Link monitoring
- Auto-Sync configurations

Content Filtering (BlueCoat and Commtouch)^{*3}

- Social networking control
- Web security—Security threat category (powered by BlueCoat)
- URL blocking, keyword blocking
- Profile base setting
- Exempt list (blacklist and whitelist)
- Blocks java applet, cookies and active X
- Dynamic URL filtering database (powered by BlueCoat and Commtouch)
- Unlimited user licenses support
- Customize warning messages and redirect URL

Networking

- Routing mode/bridge mode/mixed mode
- Layer 2 port grouping
- Ethernet/PPPoE
- NAT/PAT
- Tagged VLAN (802.1Q)
- Virtual interface (alias interface)
- Policy-based routing (user-aware)
- Policy-based NAT (SNAT)
- Dynamic routing (RIP v1/v2, OSPF)
- DHCP client/server/relay
- Dynamic DNS support
- WAN Trunk more than 2 port (ZyWALL 50/100/200)
- Per host session limit
- Guaranteed bandwidth
- Maximum bandwidth
- Priority-bandwidth utilization





ZyWALL USG 20/20W/50/ 100/200 Unified Security Gateway

Authentication

- Local user database
- Microsoft Windows active directory integrate
- External LDAP/RADIUS user database
- Xauth over RADIUS for IPSec VPN
- Forced user authentication (transparent authentication)
- IP/MAC address binding

System Management

- Role-Based administration
- Multiple administrator login
- Multi-Lingual web GUI (HTTPS/HTTP)
- Object-based configuration
- Command line interface (console/web console/SSH/TELNET)
- SNMP v2c (MIB-II)
- System configuration rollback
- Firmware upgrade via FTP/FTP-TLS/web GUI

Logging/Monitoring

- Comprehensive local logging
- Syslog (send to up to 4 servers)
- E-mail alert (send to up to 2 servers)
- Real-Time traffic monitoring
- Built-in daily report
- Advanced reporting (Vantage Report)
- Centralized Network Management (Vantage CNM) manageable

Certification

- Emission (EMC)
 - FCC Part15 (Class B)
 - CE EMC (Class B)

Note:

**1: Available for USG 50/100/200 models with a ZyWALL Intrusion Detection/Prevention (IDP) subscription.*

**2: Available for USG 50/100/200 models with a ZyWALL Anti-Virus subscription.*

**3: Available for all USG models with a ZyWALL Content Filtering subscription.*

3G Card Support

Please visit http://www.zyxel.com/products_services/smb_security_appliances_and_services.shtml and find the following path:
ZyWALL Unified Security Gateways → USG product pages to see the 3G Card Compatibility List for supported USB devices.

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



Copyright © 2012 ZyXEL Communications Corp. All rights reserved. ZyXEL, ZyXEL logo are registered trademarks of ZyXEL Communications Corp. All other brands, product names, or trademarks mentioned are the property of their respective owners. All specifications are subject to change without notice.

