

## ZyWALL USG 1000



### Key Features

- Hybrid VPN (IP Sec / SSL / L2TP 동시지원)
- ICSA Labs 인증
- Content Filter (BlueCoat or Commtouch)
- Anti Virus(Kaspersky or ZyXEL Anti-Virus)
- 회선 이중화(Multiple WAN) 및 부하분산
- IPv6 지원
- Windows 7 완벽지원

### Hardware Specifications

- 5 x All Gigabit RJ45(configurable)
- 2 x USB Interface
- 1 x Card Slot

### System Capacity & Performance

- SPI Firewall Throughput: 400 Mbps
- VPN Throughput (3DES): 150 Mbps
- UTM Throughput (AV+IDP): 80 Mbps
- Max Sessions: 500,000
- Unlimited User Licenses
- Max. Concurrent IPsec VPN Tunnels: 1,000
- Max. Concurrent SSL VPN Users: 250
- Customizable Zone
- Web Security - Content Filtering
- E-mail security - Anti-SPAM
- Intrusion Detection and Prevention
- Anomaly Detection and Prevention
- Application Patrol (IM/P2P Management)
- Bandwidth Management
- Endpoint Security
- User-aware Management
- Device HA
- VPN HA
- Multiple WANs for Load Balancing

### 제품개요

ZyWALL USG 1000은 200명 이하의 중소기업 고객을 위해 개발된 최적의 통합 보안 장비입니다. USG 1000은 바이러스, 웜, 피싱, 스파이웨어, 스팸 등의 외부의 불법 침입 시도를 차단할 뿐만 아니라 지사와 파트너 및 고객 간의 안전한 원격 접속을 보장하는 통합 네트워크 보안 시스템입니다.

### Gigabit 완벽 지원

5개의 10/100/1000Mbps 기가비트 포트를 통해 기가비트 통신망을 이용하여 고해상도 동영상 전송 및 파일 작업을 더욱 빠르게 완료할 수 있습니다.

### 400Mbps SPI(Stateful Packet Inspection) 방화벽

ZyWALL USG 시리즈는 보다 강력한 보안 아키텍처 성능으로 강력한 통합 보안 솔루션을 제공합니다. 400Mbps의 방화벽 성능으로 네트워크 성능의 저하 없이 실시간 보안 기능을 제공합니다.

### 3가지 VPN(IPsec / L2TP / SSL) 동시 지원

IPsec / L2TP 방식의 VPN 기능을 제공하며 일반적인 터널 방식인 Site to Site 방식으로 지사와 원격으로 연결이 가능합니다. PC 및 안드로이드폰과 아이폰 등 모바일을 통한 연결이 가능하며, SSL VPN 지원으로 원격 사용자는 별도의 설정없이 로그인 정보를 통해 회사 내부로 접속이 가능합니다.

### 다양한 모니터링 방식과 리포트 기능

ZyWALL USG 시리즈는 서비스 포트 트래픽, 웹사이트 접속수, IP별 트래픽을 그래픽화하여 네트워크 관리자가 보다 알기 쉽도록 다양한 모니터링 방식을 제공합니다.

### 서비스 라이선스를 통한 통합 보안 기능 옵션

안티 바이러스, 안티 스팸, 침입 탐지 및 차단(IDP), 콘텐츠 필터 기능을 별도의 라이선스를 통해 지원하여 악성코드, 스파이웨어, 피싱으로부터 사용자의 네트워크 침입을 실시간으로 차단합니다.

### IPv6 지원

IPv6 Ready 인증을 획득하여 IPv4 기반의 네트워크에서 Full IPv6로 이동이 가능합니다.

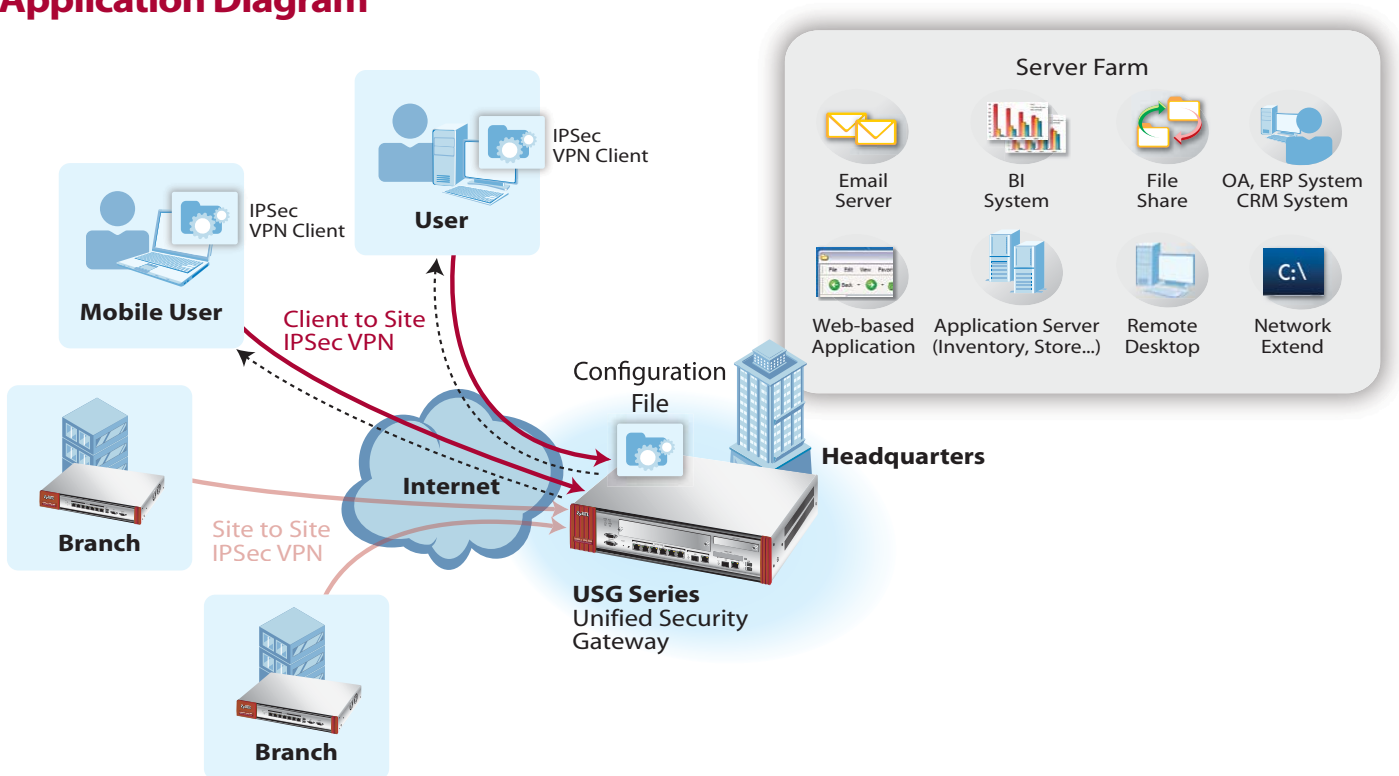
### 편리한 관리자 인터페이스

쉬운 메뉴 설정을 제공하며 실제 장비의 모습을 볼 수 있어 한 번에 장비의 상태를 모니터링 할 수 있습니다.




## Product Picture



## Application Diagram



## ZyWALL USG Series

Model	USG 300	USG 1000	USG 2000
Product photo			
<b>Hardware Specifications</b>			
10/100/1000 interfaces (Copper)	7	5	6
Dual personality GbE (SFP/RJ45)	-	-	2
USB ports	2	2	2
SEM Slot (Security extension module)	-	-	1
Card slot	2	1	1
<b>System Capacity &amp; Performance<sup>*1</sup></b>			
SPI firewall throughput <sup>*2</sup> (Mbps)	350	400	2,000
VPN throughput (AES) <sup>*3</sup> (Mbps)	130	180	600 <sup>*6</sup>
UTM throughput (AV+IDP) <sup>*4</sup> (Mbps)	80	100	400 <sup>*7</sup>
Unlimited user licenses	Yes	Yes	Yes
Max. sessions <sup>*5</sup>	60,000	500,000	1,000,000
New session rate	1,500	12,000	20,000
Max. concurrent IPSec VPN tunnels	200	1,000	2,000
Max. concurrent SSL VPN users	25	250	750 <sup>*7</sup>
Included SSL VPN users	2	5	5
Customizable zone	Yes	Yes	Yes
IPv6 support	Yes	Yes	Yes
<b>Power Requirement</b>			
Input voltage	100 - 240 V AC, 50/60 Hz, 0.55 - 0.3 A	100 - 240 V AC, 50/60 Hz, 1 A Max.	100 - 240 V AC, 50/60 Hz, 3 - 6 A
Power rating	35 W Max.	80 W Max.	200 W Max.
Power consumption (watt)	35	80	200
<b>Physical Specifications</b>			
Item	Dimensions (WxDxH)(mm/in.)	430 x 201 x 42/ 16.93 x 7.91 x 1.65	431 x 292 x 43.5/ 16.97 x 11.50 x 1.71
	Weight (kg/lb.)	2.8/6.17	4.7/10.36
Packing	Dimensions (WxDxH)(mm/in.)	539 x 184 x 321/ 21.22 x 7.24 x 12.64	529 x 411 x 194/ 20.83 x 16.18 x 7.64
	Weight (kg/lb.)	6/13.22	6.5/14.33
<b>Environmental Specifications</b>			
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)		
MTBF (hr)	180,382	51,611	99,141

**Note:**

- \*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: UTM (AV and IDP) throughput measured using the industry standard IXIA IxLoad testing tool (1,460-byte HTTP packets).
- \*5: Maximum sessions measured using the industry standard IXIA IxLoad testing tool.
- \*6: With SEM-DUAL or SEM-VPN module
- \*7: With SEM-DUAL module

### 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, SHA-2/MD5
- Key management: Manual key/IKE
- Perfect forward secrecy (DH groups) support 1, 2, 5
- IPSec NAT traversal
- Dead peer detection/relay detection

## Features

### Virtual Private Network (VPN)

- 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)<sup>\*1</sup>

- 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

### Application Intelligence<sup>\*1</sup> (Application Patrol)

- Identify more than 600 applications, including IM, P2P, social network, stream media, VoIP, and others
- Support application granularity control
- Manage use of Skype/MSN, GoogleTalk, Facebook at business hours, or never
- Block all use of P2P and Games applications all the time (or during business hours)
- Bandwidth management for P2P, Stream Media, File Transfer, or particular applications
- Daily check and auto update application signatures
- Real-Time statistical reports

### Anti-Virus<sup>\*2</sup>

- 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

### 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

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

### Content Filtering (BlueCoat and Commtouch)<sup>\*3</sup>

- 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
- Per host session limit
- Guaranteed bandwidth
- Maximum bandwidth
- Priority-bandwidth utilization

### 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

- Safety
  - CSA International
- Emission (EMC)
  - FCC Part15 (Class A)
  - CE EMC (Class A)

Note:

<sup>\*1</sup>: Available for USG 300/1000/2000 models with Intrusion Detection/Prevention(IDP) subscription.

<sup>\*2</sup>: Available for USG 300/1000/2000 models with Anti-Virus subscription.

<sup>\*3</sup>: Available for all USG models with Content Filtering subscription.

## License

Product information	Model name	P/N
Licence for Firewall Appliance	E- iCard, 1 year Bluecoat Content Filter for USG 1000	91-995-072001B
Licence for Firewall Appliance	E- iCard, 2 years Bluecoat Content Filter for USG 1000	91-995-073001B
Licence for ZyWALL Firewall Appliance	E- iCard, 1 year IDP for ZyWALL USG 1000	91-995-076001B
Licence for ZyWALL Firewall Appliance	E- iCard, 2 years IDP for ZyWALL USG 1000	91-995-077001B
Licence for ZyWALL Firewall Appliance	E- iCard, 1 year AV for ZyWALL USG 1000	91-995-078001B
Licence for ZyWALL Firewall Appliance	E- iCard, 2 years AV for ZyWALL USG 1000	91-995-093001B
Licence for ZyWALL Firewall Appliance	E- iCard, 1 year ZyXEL AV for ZyWALL USG 1000	91-995-193001B
Licence for ZyWALL Firewall Appliance	E- iCard, 2 years ZyXEL AV for ZyWALL USG 1000	91-995-194001B
Licence for ZyWALL Firewall Appliance with ZLD 3.0	E-iCARD 1 YR Commtouch Anti-Spam License for ZyWALL USG 1000	USG1000-CS1-ZZ0101F
Licence for ZyWALL Firewall Appliance with ZLD 3.0	E-iCARD 2 YR Commtouch Anti-Spam License for ZyWALL USG 1000	USG1000-CS2-ZZ0101F
Licence for ZyWALL Firewall Appliance with ZLD 3.0	E-iCARD 1 YR Commtouch Content Filtering License for ZyWALL USG 1000	USG1000-CC1-ZZ0101F
Licence for ZyWALL Firewall Appliance with ZLD 3.0	E-iCARD 2 YR Commtouch Content Filtering License for ZyWALL USG 1000	USG1000-CC2-ZZ0101F
Licence for ZyWALL Firewall Appliance	E- iCard, SSL VPN 5 TO 25 TUNNELS ZyWALL USG 1000	91-995-075001B
Licence for ZyWALL Firewall Appliance	E- iCard, SSL VPN 25 TO 50 TUNNELS ZyWALL USG 1000	91-995-074001B
Licence for ZyWALL Firewall Appliance	E- iCard, SSL VPN 5 TO 50 TUNNELS ZyWALL USG 1000	91-995-092001B
Licence for ZyWALL Firewall Appliance	E- iCard, SSL VPN 5 TO 250 TUNNELS ZyWALL USG 1000	91-995-190001B
Licence for ZyWALL Firewall Appliance	E- iCard, SSL VPN 25 TO 250 TUNNELS ZyWALL USG 1000	91-995-191001B
Licence for ZyWALL Firewall Appliance	E- iCard, SSL VPN 50 TO 250 TUNNELS ZyWALL USG 1000	91-995-192001B

## Solution Partner

