



SonicWALL NSA E-Class Series

SonicWALL Application Intelligence UTM

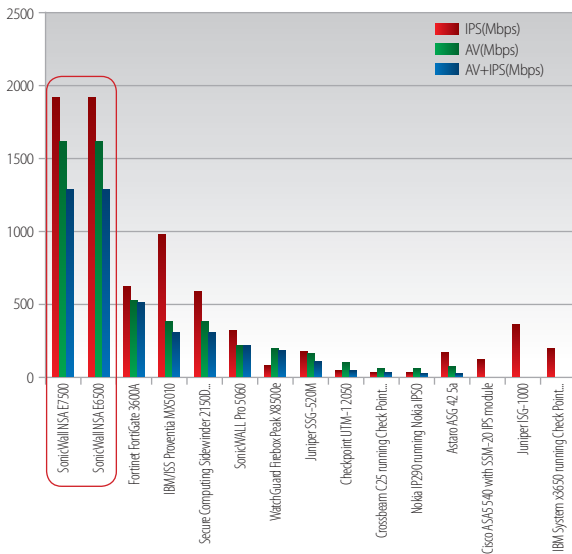
- 업계 최초의 Multi-core CPU 구조
- 고성능의 방화벽 - 최대 8Gbps
- 고성능의 UTM - 최대 2Gbps
- 위협에 대한 최고의 차단율 - 98.81% catch rate by **Mu Dynamics**
- 어플리케이션의 Visualization
- 무선 보안 내장 (Sonicpoint)
- CC(EAL4+) 인증획득 & IPv6 ready



- 관리 운영의 편의성
- 사용자와 어플리케이션 레벨에 확실한 보안
 - DPI-SSL(Dep Packet Inspection-Secure Socket Layer)
 - 데이터 유출 보호
 - IM/P2P 차단
 - 대역폭 관리
 - 탁월한 취약점 스캔 - 동시세션이나 파일 사이즈의 제한이 없이 다양한 프로토콜에 대해 스캔

동급 최고 성능의 UTM 입증!

UTM Performance



네트워크월드 UTM 비교 테스트 결과

동급장비 대비 최대 3배에 가까운 성능 차이를 보여주며, 기가급 속도를 필요로 하는 엔터프라이즈환경에 적합한 UTM으로서 최대한의 속도를 제공한다. "Joel Snyder"

출처 : <http://www.networkworld.com/reviews/2008/040708-sonicwall-utm-gigabit-test.html?page=1>



SonicWALL의 성능 이점

- 미국 특허 출원 기술 Re-Assemble Free Deep Packet Inspection™ (RFDPI) 엔진 탑재
- 멀티코어 아키텍처는 확장성을 증가 시키는 병렬 프로세싱을 제공
- 전용보안칩을 통한 하드웨어 가속

바이러스 차단율 최고 입증!

SonicWALL covers more protocols and has a higher catch rate than any other vendor

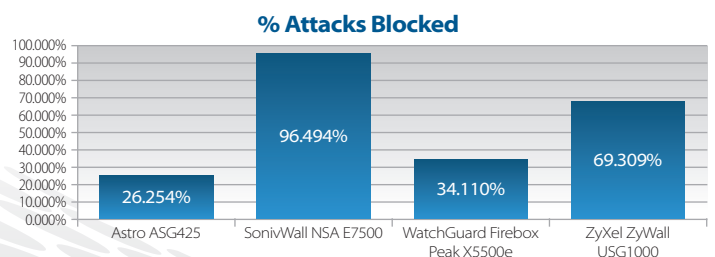
Vendor	Product	Protocols Covered	Catch Rate
SonicWALL	NSA E7500	FTP, HTTP, SMTP, IMAP, POP3, CIFS, TCP	85%
Fortinet	FortiGate 3600A	FTP, HTTP, SMTP, IMAP, POP3, IM, NNTP	75%
Secure Computing	Sidewinder 2150D with IPS acceleration	FTP, HTTP, SMTP	75%
Nokia	IP 290	FTP, HTTP, SMTP, POP3	75%
Juniper Networks	SSG-520M	FTP, HTTP, SMTP, IMAP, POP3	72%
Check Point	UTM-1 2050	FTP, HTTP, SMTP, POP3	70%
Crossbeam	C25	FTP, HTTP, SMTP, POP3	70%
Astaro	ASG 42.5a	FTP, HTTP, SMTP, POP3	67%
IMB/ISS	Proventia MX5010	FTP, HTTP, SMTP, POP3	60%
WatchGuard	Firebox Peak X8500e	SMTP, HTTP, TCP	45%

출처 : <http://www.networkworld.com/reviews/2007/111207-utm-firewall-test-antivirus.html?nwwpkg=utm>

악성코드 차단율 최고 입증!



Unified Threat Manager	Attacks Attempted	Attacks Blocked	Attacks Missed	% Attacks Blocked
Astaro ASG425	598	157	441	26.254%
SonicWall NSA E7500	599	578	21	96.494%
WatchGuard Firebox Peak X5500e	598	198	400	33.110%
ZyXel ZyWall USG1000	593	411	182	69.309%



출처 : <http://www.networkworld.com/reviews/2007/111207-utm-firewall-test-antivirus.html?nwwpkg=utm>



E8510



E8500



E6500



E5500

Specifications

Feature	NSA E5500	NSA E6500	NSA E8500	NSA E8510
Firewall				
SonicOS Version	SonicOS Enhanced 5.6 (or higher)		SonicOS Enhanced 5.8.0.6 (or higher)	
Stateful Throughput ¹	3.9 Gbps	5 Gbps	8.0 Gbps	
GAV Performance ²	1.0 Gbps	1.69 Gbps	2.25 Gbps	
IPS Performance ³	2.0 Gbps	2.3 Gbps	3.7 Gbps	
UTM Performance ²	850 Mbps	1.59 Gbps	2.2 Gbps	
Maximum Connections ³	750,000	1,000,000	1,500,000	
Maximum DPI Connections	500,000	600,000	1,250,000	
New Connections/Sec	30,000	60,000	85,000	
Nodes Supported	Unrestricted			
Denial of Service Attack Prevention	22 classes of DoS, DDoS and scanning attacks			
SonicPoints Supported (Maximum)	96			128
VPN				
3DES/AES Throughput ⁴	1.7 Gbps	2.7 Gbps	4.0 Gbps	
Site-to-Site VPN Tunnels	4,000	6,000	10,000	
Bundled Global VPN Client Licenses (Maximum)	2,000 (4,000)	2,000 (6,000)	2,000 (10,000)	
Bundled SSL VPN Licenses (Maximum)	2 (50)	2 (50)	2 (50)	
Virtual Assist Bundled (Maximum)	1 (25)	1 (25)	1 (25)	
Encryption/Authentication/DH Groups	DES, 3DES, AES (128, 192, 256-bit)/MD5, SHA-1/DH Groups 1, 2, 5, 14			
Key Exchange	IKE, IKEv2, Manual Key, PKI (X.509), L2TP over IPSec			
Route-based VPN	Yes (OSPF, RIP)			
Certificate Support	Verisign, Thawte, Cybertrust, RSA Keon, Entrust, and Microsoft CA for SonicWALLto-SonicWALL VPN, SCEP			
Redundant VPN Gateway	Yes			
Global VPN Client Platforms Supported	Microsoft® Windows 2000, Windows XP, Microsoft® Vista 32-bit/64 bit, Windows 7			
SSL VPN Platforms Supported	Microsoft® Windows 2000 / XP / Vista 32/64-bit / Windows 7 32/64-bit, Mac 10.4+, Linux FC 3+ / Ubuntu 7+ / OpenSUSE			
Security Services				
Deep Packet Inspection Service	Intrusion Prevention, Gateway Anti-Virus, Anti-Spyware and Application Intelligence			
Content Filtering Service (CFS) Premium Edition	HTTP, URL, HTTPS IP, keyword and content scanning ActiveX, Java Applet, and Cookie blocking, bandwidth management on rating categories, custom allow/forbid lists			
Enforced Client Anti-Virus and Anti-Spyware	McAfee® or Kaspersky®			
Comprehensive Anti-Spam Service	Supported			
Application Intelligence and Control	Application bandwidth management and control, prioritize or block application by signatures, control file transfers, scan for key words or phrases			
DPI SSL	Provides the ability to decrypt HTTPS traffic transparently, scan this traffic for threats using SonicWALL's Deep Packet Inspection technology (GAV/AS/IPS/Application Intelligence/CFS), then re-encrypt the traffic and send it to its destination if no threats or vulnerabilities are found. This feature works for both clients and servers.			
Networking				
IP Address Assignment	Static, (DHCP, PPPoE, L2TP and PPTP client), Internal DHCP server, DHCP relay			
NAT Modes	1:1, 1:many, many:1, many:many, flexible NAT (overlapping IPs), PAT, transparent mode			
VLAN Interfaces (802.1q)	400	500	512	
Routing	OSPF, RIPv1/v2, static routes, policy-based routing, Multicast			
QoS	Bandwidth priority, maximum bandwidth, guaranteed bandwidth, DSCP marking, 802.1p			
Authentication	XAUTH/RADIUS, Active Directory, SSO, LDAP, Novell, internal user database, Terminal Services, Citrix			
IPv6	Yes			
Internal Database/Single Sign-on Users	1,500/2,500 Users	2,500/7,000 Users	2,500/7,000 Users	
VoIP	Full H.323v1-5, SIP, gatekeeper support, outbound bandwidth management, VoIP over WLAN, deep inspection security, full interoperability with most VoIP gateway and communications devices			
Hardware				
Interfaces	(8) 10/100/1000 Copper Gigabit Ports, 1 Gbe HA Interface, 1 Console Interface,	1 Gbe HA, 2 USB	(4) SFP (SX, LX or TX), (4) 10/100/1000 GbE, 1 GbE HA Interface, 2 USB, 1 Console Interface	(2) SFP+ 10GbE, (4) 10/100/ 1000 GbE, 1 GbE HA Interface, 2 USB, 1 Console Interface
Memory (RAM)	1 GB	1 GB	4 GB	
Flash Memory	512 MB Compact Flash			
Power Supply	Single 250W ATX Power Supplies		Dual 250W ATX, Hot Swappable	
Fans	Dual Fans, Hot Swappable			
Display	Front LCD Display			
Power Input	100-240Vac, 60-50Hz			
Max Power Consumption	81 W	90 W	150 W	
Certifications	EAL4+, FIPS 140-2 Level 2, VPNC, ICSA Firewall 4.1		ICSA Firewall 4.1	

Certifications



¹ Testing Methodologies: Maximum performance based on RFC 2544 (for firewall). Actual performance may vary depending on network conditions and activated services.

² Full DPI/Gateway AV/Anti-Spyware/IPS throughput measured using industry standard Spirent WebAvalanche HTTP performance test and Ixia test tools. Testing done with multiple flows through multiple port pairs.

³ Actual maximum connection counts are lower when Full DPI services are enabled.

⁴ VPN throughput measured using UDP traffic at 1280 byte packet size adhering to RFC 2544.

USB 3G card and modem are not included. See <http://www.sonicwall.com/us/products/cardsupport.html> for supported USB devices.

⁵ The Comprehensive Anti-Spam Service supports an unrestricted number of users but is recommended for 250 users or less.

⁶ With SonicWALL WXA Series Appliances