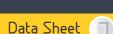


Future-ready Security for SME networks



Cyberoam



CRIOOiNG Future-readu

Cyberoam NG series of Unified Threat Management appliances are the Next-Generation network security appliances that include UTM security features along with performance required for future networks. The NG series for SMEs are the "fastest UTMs" made for this segment. The best-in-class hardware along with software to match, enables the NG series to offer unmatched throughput speeds, compared to any other UTM appliance in this market segment. This assures support for future IT trends in organizations like high-speed Internet and rising number of devices in organizations – offering future-ready security to SMEs.

With Cyberoam NG series, businesses get assured Security, Connectivity and Productivity. The Layer 8 Technology treats User-Identity as the 8th Layer or the HUMAN layer in the protocol stack. It attaches User-Identity to security, which adds speed to an organization's security by offering instant visibility into the source of attacks by username rather than only IP address. Cyberoam's Extensible Security Architecture (ESA) supports feature enhancements that can be developed rapidly and deployed with minimum efforts, offering future-ready security to organizations.



The 'Next-Generation' Series: The fastest UTMs made for SMEs

> Cyberoam's Layer 8 Technology treats "User Identity" as the 8th Layer in the protocol stack

.8(USER		
7 (Application	🛐 📑 😜 📢	
.6(Presentation	ASCII, EBCDIC, ICA	
5 (Session	L2TP, PPTP	
4 (Transport	TCP, UDP	
.3 (Network	192.168.1.1	
.2	Data Link	00-17-BB-8C-E3-E7	
1	Physical		

Cyberoam UTM offers security across Layer 2-Layer 8 using Identity-based policies

Cyberoam UTM features assure Security, Connectivity, Productivity

Security

Network Security

- Firewall
- Intrusion Prevention System
- Web Application Firewall

Content Security

- Anti-Virus/Anti-Spyware
- Anti-Spam (Inbound/Outbound) - HTTPS/SSL Content Security
- TITT GIGGE Content Security

Administrative Security

- Next-Gen UI
- iView- Logging & Reporting

Connectivity

Business Continuity

Multiple Link Management
 High Availability

- Network Availability - VPN
- 3G/4G/WiMAX Connectivity

Future-ready Connectivity

- "IPv6 Ready" Gold Logo

Productivity

- **Employee Productivity**
- Content Filtering
- Instant Messaging Archiving & Controls

IT Resource Optimization

- Bandwidth Management
- Traffic Discovery
- Application Visibility & Control

Administrator Productivity



Interfaces

Copper GbE Ports
Configurable Internal/DMZ/WAN Ports
Console Ports (RJ45)
USB Ports
Hardware Bypass Segment [#]
51 0

System Performance*

System Ferrormance	
Firewall Throughput (UDP) (Mbps)	4,500
Firewall Throughput (TCP) (Mbps)	3,500
New sessions/second	45,000
Concurrent sessions	1,250,000
IPSec VPN Throughput (Mbps)	450
No. of IPSec Tunnels	250
SSL VPN Throughput (Mbps)	400
WAF Protected Throughput (Mbps)	700
Anti-Virus Throughput (Mbps)	1,400
IPS Throughput (Mbps)	1,200
UTM Throughput (Mbps)	750

8

22

Yes

Stateful Inspection Firewall - Layer 8 (User - Identity) Firewall - Multiple Security Zones

- Multiple Security Zones
 Access Control Criteria (ACC) User Identity, Source & Destination Zone, MAC and IP address, Service
 UTM policies IPS, Web Filtering, Application Filtering, Anti-Virus, Anti-Spam and Bandwidth Management
- Layer 7 (Application) Control & Visibility Access Scheduling

- Access Scheduling Policy based Source & Destination NAT H.323, SIP NAT Traversal 802.1q VLAN Support DoS & DDoS Attack prevention MAC & IP-MAC filtering and Spoof prevention

Gateway Anti-Virus & Anti-Spyware

- Virus, Worm, Trojan: Detection & Removal
 Spyware, Malware, Phishing protection
 Automatic virus signature database update
 Scans HTTP, HTTPS, FTP, SMTP, POP3, IMAP, IM, Vana VPN Tunnels - Customize individual user scanning
- Self Service Quarantine area

- Scan and deliver by file size
 Block by file types
 Add disclaimer/signature

- Gateway Anti-Spam Inbound/Outbound Scanning Real-time Blacklist (RBL), MIME header check Filter based on message header, size, sender, recipient
 Subject line tagging
 IP address Black list/White list

- Redirect Spam mails to dedicated email address Image-based Spam filtering using RPD Technology Zero hour Virus Outbreak Protection

- Self Service Quarantine area Spam Notification through Digest
- IP Reputation-based Spam filtering

Intrusion Prevention System - Signatures: Default (4500+), Custom - IPS Policies: Multiple, Custom

- User-based policy creation Automatic real-time updates from CRProtect networks
- Protocol Anomaly Detection
- DDoS attack prevention
- SCADA-aware IPS with pre-defined category for ICS and **SCADA** signatures

- Web Filtering Inbuilt Web Category Database URL, keyword, File type block Categories: Default(82+), Custom Protocols supported: HTTP, HTTPS Block Malware, Phishing, Pharming URLs Schodiulo based access control
- Schedule-based access control
 Custom block messages per category
 Block Java Applets, Cookies, Active X
- CIPA Compliant - Data leakage control via HTTP, HTTPS upload

"If Enabled, will bypass traffic only in case of power failure. **Additional Purchase Required.

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Application Filtering

- Inbuilt Application Category Database
 2,000+ Applications Supported
- Schedule-based access control
- Block
- Proxy and Tunnel

Toll Free Numbers

- File Transfer
- Social Networking
- Streaming Media Storage and Backup

- Layer 7 (Applications) & Layer 8 (User - Identity) Visibility - Securing SCADA Networks

High Availability -Active-Active

- Stateful failover

-Active-Passive with State Synchronization

Administration & System Management

Command Line Interface (Serial, SSH, Telnet)

SNMP (v1, v2c, v3)
Multi-lingual support: Chinese, Hindi, French, Korean
Cyberoam Central Console (Optional)
Network Time Protocol Support

- Active Directory Integration - Automatic Windows Single Sign On - External LDAP/RADIUS database integration - Thin Client support - Microsoft Windows Server 2003

- External Authentication - Users and Administrators - User/MAC Binding - Multiple Authentication servers

Terminal Services and Citrix XenApp - Novell eDirectory

Graphical real-time and historical monitoring
 Email notification of reports, gateway status, viruses and

- Log Viewer - Firewall, IPS, Web filter, Anti Virus, Anti

Inter-operability with major IPSec VPN Gateways
 Supported platforms: Windows 2000, WinXP 32/64-bit, Windows 2003 32-bit, Windows 2008 32/64-bit, Windows

2GB

4GB

250GB or higher

1.7 x 14.6 x 17.3

4.4 X 37.2 X 44

5 kg, 11.02 lbs

100-240 VAC

0 to 40 °C -25 to 75 °C

10 to 90%

beroam

A SOPHOS Company

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338

Spam, Authentication, System and Admin Events On-Appliance Cyberoam-iView Reporting

- Username, Host, Email ID specific Monitoring Dashboard - Reports - Security, Virus, Spam, Traffic, Policy violations, VPN, Search Engine keywords

- Integrated Web-based Reporting tool

- Multi-format reports - tabular, graphical - Exportable formats - PDF, Excel

Vista 32/64-bit, Windows 7 RC1 32/64-bit

Alerts on appliance status change

- Web-based configuration wizard - Role-based access control

- Firmware Upgrades via Web UI - Web 2.0 compliant UI (HTTPS) - UI Color Styler

User Authentication

- RSA SecurID support

Logging/Monitoring

Cyberoam-iView - 1000+ drilldown reports

- 45+ Compliance Reports

- Historical and Real-time reports - Multiple Dashboards

-Automated Report Scheduling

- Import Connection configuration

- Common Criteria - EAL4+ - ICSA Firewall - Corporate - Checkmark UTM Level 5 Certification

- VPNC - Basic and AES interoperability - "IPv6 Ready" Gold Logo

Hardware Specifications

IPSec VPN Client**

Certification

Memory

HDD

CE FCC

Weight

Power

Input Voltage

Consumption

Environmental

Operating Temperature Storage Temperature

Total Heat Dissipation (BTU)

Relative Humidity (Non condensing)

UĹ

Compact Flash

Compliance

Dimensions H x W x D (inches)

H x W x D (cms)

attacks

- Syslog support

- Internal database

- SCADA/ICS Signature-based Filtering for Protocols
 Modbus, DNP3, IEC, Bacnet, Omron FINS, Secure DNP3, Longtalk
- Control various Commands and Functions

- Web Application Firewall Positive Protection model Unique "Intuitive Website Flow Detector" technology Protection against SQL Injections, Cross-site Scripting (XSS), Session Hijacking, URL Tampering, Cookie Poisoning Support for HTTP 0.9/1.0/1.1 Extensive Logging & Reporting

- Virtual Private Network IPSec, L2TP, PPTP Encryption 3DES, DES, AES, Twofish, Blowfish, Serpent
- Hash Algorithms MD5, SHA-1 Authentication Preshared key, Digital certificates
- IPSec NAT Traversal
- Dead peer detection and PFS support Diffie Hellman Groups 1,2,5,14,15,16
- External Certificate Authority support
- Export Road Warris connection configuration
 Domain name support for tunnel end points
 VPN connection redundancy

- Overlapping Network support Hub & Spoke VPN support

- SSL VPN TCP & UDP Tunneling Authentication Active Directory, LDAP, RADIUS,
- Cyberoam -Multi-layered Client Authentication - Certificate,

- Multi-tayer location and a manufacture of contraction, Username/Password
 User & Group policy enforcement
 Network access Split and Full tunneling
 Browser-based (Portal) Access Clientless access
 Lightweight SSL VPN Tunneling Client
- Granular access control to all the Enterprise Network resources
- Administrative controls Session timeout, Dead Peer Detection, Portal customization
- TCP- based Application Access HTTP, HTTPS, RDP, TELNET. SSH

Instant Messaging (IM) Management - Yahoo and Windows Live Messenger

- Virus Scanning for IM traffic Allow/Block Login Allow/Block File Transfer
- Content-based blocking

- IM activities Log - Archive files transferred

- Custom Alerts

- Primary WAN link

- WAN Backup link

Networking

Forwarding

Bandwidth Management

- Multi WAN bandwidth reporting

- Access time restriction - Time and Data Quota restriction

- Parent Proxy support with FQDN - "IPv6 Ready" Gold Logo

- Category-based bandwidth restriction

User Identity and Group Based Controls

- Allow/Block Webcam - Allow/Block one-to-one/group chat

Wireless WAN - USB port 3G/4G and Wimax Support

Application and User Identity based Bandwidth Management - Guaranteed & Burstable bandwidth policy

-Application & User Identity based Traffic Discovery

- Schedule based Committed and Burstable Bandwidth - Schedule based P2P and IM Controls

Failover - Automated Failover/Failback, Multi-WAN failover, 3GModem failover
 WRR based load balancing

IP Address Assignment - Static, PPPoE, L2TP, PPTP & DDNS Client, Proxy ARP, DHCP server, DHCP relay - Support for HTTP Proxy - Dynamic Routing: RIP v1& v2, OSPF, BGP, Multicast

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- Policy routing based on Application and User

*Antivirus, IPS and UTM performance is measured based on HTTP traffic as per RFC 3511 guidelines. Actual performance may vary depending on the real network traffic environments.