

Future-ready Security for SOHO/ROBO networks

CR25iNG

Cyberoam

Future-ready

Data Sheet

Cyberoam NG series of Unified Threat Management appliances are the Next-Generation network security appliances that include UTM security features and performance required for future networks. The NG series for SOHO offer "the fastest UTMs made for SMBs" to small offices. 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 for small office networks.

With Cyberoam NG series, businesses get assured Security, Connectivity and Productivity. The Laver 8 Technology treats User-Identity as the 8th Laver 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 for SOHO: Offering "the fastest UTMs made for SMBs" to Small Offices

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

| .8 | USER | | |
|------|--------------|--------------------|--|
| .7 (| Application | 🗊 달 😂 👀 | |
| .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

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 | |
| | |

| Syster | m | Perf | forma | n | ce* | |
|--------|---|------|-------|---|-----|--|
| | | | | | | |

| System Ferrormance | |
|----------------------------------|---------|
| Firewall Throughput (UDP) (Mbps) | 1,500 |
| Firewall Throughput (TCP) (Mbps) | 1.000 |
| New sessions/second | 5.000 |
| Concurrent sessions | 150.000 |
| IPSec VPN Throughput (Mbps) | 210 |
| No. of IPSec Tunnels | 100 |
| SSL VPN Throughput (Mbps) | 75 |
| WAF Protected Throughput (Mbps) | 100 |
| Anti-Virus Throughput (Mbps) | 300 |
| IPS Throughput (Mbps) | 200 |
| UTM Throughput (Mbps) | 110 |

Stateful Inspection Firewall - Layer 8 (User - Identity) Firewall

- Multiple Security Zones

- Location-aware and Device-aware Identity-based Access
- Control Policy Access Control Criteria (ACC): User-Identity, Source and Destination Zone, MAC and IP address, Service Security policies - IPS, Web Filtering, Application
- Filtering, Anti-virus, Anti-spam and QoS Country-based Traffic Control
- Access Scheduling
- Policy based Source and Destination NAT, Gateway Specific NAT Policy
- DoS and DDoS attack prevention MAC and IP-MAC filtering
- Spoof Prevention

- Intrusion Prevention System Signatures: Default (4500+), Custom IPS Policies: Pre-configured Zone-based multiple
- policies, Custom Filter based selection: Category, Severity, Platform and Target (Client/Server)
- IPS actions: Recommended, Allow Packet, Drop Packet, Disable, Drop Session, Reset, Bypass Session
- User-based policy creation
- Automatic signature updates via Cyberoam Threat Research Labs
- Protocol Anomaly Detection
 SCADA-aware IPS with pre-defined category for ICS and SCADA signatures

- Gateway Anti-Virus & Anti-Spyware Virus, Worm, Trojan Detection and Removal Spyware, Malware, Phishing protection Automatic virus signature database update Scans HTTP, HTTPS, FTP, SMTP, POP3, IMAP, IM, VPN Turanele Tunnels
- Customize individual user scanning
- Self Service Quarantine area Scan and deliver by file size
- Block by file types

Gateway Anti-Spam

- Inbound and Outbound Scanning
 Real-time Blacklist (RBL), MIME header check
- Filter based on message header, size, sender, recipient
 Subject line tagging
 Language and Content-agnostic spam protection using
- RPD Technology Zero Hour Virus Outbreak Protection
- Self Service Quarantine area
 IP address Black list/White list
- Spam Notification through Digest
- IP Reputation based Spam filtering

- Web Filtering On-Cloud Web Categorization Controls based on URL, Keyword and File type Web Categories: Default (89+), External URL Database,
- Custom
- Protocols supported: HTTP, HTTPS
 Block Malware, Phishing, Pharming URLs
 Block Java Applets, Cookies, Active X, Google Cache
- pages CIPA Compliant

Toll Free Numbers

- Data leakage control by blocking HTTP and HTTPS upload - Schedule-based access control
- Custom Denied Message per Web Category Safe Search enforcement, YouTube for Schools

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Yes 1

Application Filtering - Layer 7 (Applications) & Layer 8 (User - Identity) Control

High Availability

Support of API

- UI Color Styler

SNMP (v1, v2, v3)

User Authentication

- Internal database

- Thin Client support

- Clientless Users

Syslog support

- 4-eye Authentication

IPSec VPN Client**

- Import Connection configuration

- VPNC - Basic and AES interoperability

Certification - Common Criteria - EAL4+ - ICSA Firewall - Corporate

- Checkmark Certification

Hardware Specifications

Memory

HDD

CF FCC

Compact Flash

Compliance

Dimensions H x W x D (inches) H x W x D (cms)

Input Voltage

Consumption

Environmental

Operating Temperature Storage Temperature

Total Heat Dissipation (BTU)

Relative Humidity (Non condensing)

Weight

Power

Active-Active
Active-Passive with state synchronization
Stateful Failover with LAG Support

Administration & System Management

- Command Line Interface (Serial, SSH, Telnet)

- AD Integration and OU-based Security Policies - Automatic Windows Single Sign On - External LDAP/LDAPS/RADIUS database Integration

2-factor authentication: 3rd party support**
 SMS (Text-based) Authentication
 Layer 8 Identity over IPv6

- Authentication using Captive Portal

Authentication, System and Admin Events Forensic Analysis with quick identification of network attacks and other traffic anomalies

Logging/Monitoring - Real-time and historical Monitoring

Secure Authentication - AD, LDAP, Radius

- Log Viewer - IPS, Web filter, WAF, Anti-Virus, Anti-Spam,

On-Appliance Cyberoam-iView Reporting - Integrated Web-based Reporting tool - Cyberoam-iView - 1,200+ drilldown reports - Compliance reports - HIPAA, GLBA, SOX, PCI, FISMA - Zone based application reports - Default Dashboards: Traffic and Security - Username, Host, Email ID specific Monitoring Dashboard - Reports - Application, Internet & Web Usage, Mail Usage, Attacks Spam Virus, Sparch Engine and more

Reports – Application, Internet & Web Usage, Mail Usag Attacks, Spam, Virus, Search Engine and more
Client Types Report including BYOD Client Types
Multi-format reports - tabular, graphical
Export reports in - PDF, Excel, HTML
Email notification of reports
Report customization – (Custom view and custom logo)
Supports 3rd party PSA Solution – ConnectWise

- IPv6 Ready Gold Logo - Global Support Excellence - ITIL compliance (ISO 20000)

2GB

2GB

250GB or higher

1.7 x 6 x 9.1 4.4 x 15.3 x 23.2

2.3 kg, 5.07 lbs

100-240 VAC

0 to 40 °C -25 to 75 °C

10 to 90%

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A SOPHOS Company

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- Inter-operability with major IPSec VPN Gateways

LVIEW

- Multi-lingual : English, Chinese, Hindi, French, Japanese - Cyberoam Central Console (Optional)

Web-based configuration wizard
 Role-based Access control

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

- and Visibility Inbuilt Application Category Database
- Control over 2,000+ Applications classified in 21
- Categories Filter based selection: Category, Risk Level,
- Characteristics and Technology
- Schedule-based access control
 Schedule-based access control
 Securing SCADA Networks
 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

- Positive Protection model
 Unique "Intuitive Website Flow Detector" technology
 Protection against SQL Injections, Cross-site Scripting (XSS), Session Hijacking, URL Tampering, Cookie Poisoning etc.
 Support for HTTP 0.9/1.0/1.1
 Back-end servers supported: 5 to 300 servers

- 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 Warrior connection configuration
- Domain name support for tunnel end points
 VPN connection redundancy

- Overlapping Network support
 Hub & Spoke VPN support
 Threat Free Tunnelling (TFT) Technology

SSL VPN

- TCP & UDP Tunnelling Authentication Active Directory, LDAP, RADIUS, Cyberoam (Local)
- Multi-layered Client Authentication Certificate, Username/Password
- User & Group policy enforcement
 Network access Split and Full tunnelling
 Browser-based (Portal) Access Clientless access
 Lightweight SSL VPN Tunnelling 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

Wireless WAN

Networking

Forwarding

IPv6 Support:

Protocols

- USB port 3G/4G and WiMAX Support Primary WAN link
- WAN Backup link

Bandwidth Management - Application, Web Category and Identity based Bandwidth Management

- WINK based withinink Load balancing
 - Automated Failover/Failback
 - Interface types: Alias, Bridge Pair, LAG (port trunking),
 VLAN, WLAN#, WWAN
 - DNS-based inbound load balancing
 - IP Address Assignment - Static, PPPOE (with Schedule
 Movement) I DTD DDTD & DDL O Client December ADD

Management), L2TP, PPTP & DDNS, Client, Proxy ARP, Multiple DHCP Servers support, DHCP relay - Supports HTTP Proxy, Parent Proxy with FODN - Dynamic Routing: RIP v1& v2, OSPF, BGP, Multicast

- Dual Stack Architecture: Support for IPv4 and IPv6

For details, refer Cyberoam's Technical Alliance Partner list on Cyberoam website. *Additional Purchase Required. For list of compatible platforms, refer to OS Compatibility Matrix on Cyberoam DOCS.

Applicable to Hardware Version 1.0 - 23/08/2013

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Management over IPv6
IPv6 routing protocols
IPv6 tunneling (6in4, 6to4, 6rd, 4in6)

Alias and VLAN
 DNSv6 and DHCPv6 Services

*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.

- Firewall security over IPv6 traffic

- Guaranteed & Burstable bandwidth policy
 Application & User Identity based Traffic Discovery
 Data Transfer Report for multiple Gateways
- WRR based Multilink Load Balancing