

Future-ready Security for SOHO/ROBO networks

CR35iNG

Cyberoam

Future-readu

Data Sheet

CR35iNG

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	🛐 📑 😜 👀
.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	

System Performance*

Firewall Throughput (UDP) (Mbps)	3,700
Firewall Throughput (TCP) (Mbps)	2,400
New sessions/second	21,000
Concurrent sessions	750,000
IPSec VPN Throughput (Mbps)	280
No. of IPSec Tunnels	850
SSL VPN Throughput (Mbps)	100
WAF Protected Throughput (Mbps)	150
Anti-Virus Throughput (Mbps)	600
IPS Throughput (Mbps)	650
UTM Throughput (Mbps)	300

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 Policy based source and Destinat Specific NAT Policy
 H.323, SIP NAT Traversal
 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
- 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/S, POP3, IMAP, IM, VDN Turpals
- VPN 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
- 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

USA: +1-800-686-2360 | India: 1-800-301-00013 APAC/MEA: +1-877-777-0368 | Europe: +44-808-120-3958

www.cyberoam.com | sales@cyberoam.com

6 Yes

1 2 Application Filtering - Layer 7 (Applications) & Layer 8 (User - Identity) Control and Visibility

High Availability

Support of API

- UI Color Styler

User Authentication

- Internal database

- Syslog support

- 4-eye Authentication

IPSec VPN Client***

- Import Connection configuration

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

- Checkmark Certification

Hardware Specifications

Memory

HDD

CE

FCC

Weight

Power

Compact Flash

Compliance

Dimensions

Input Voltage

Environmental

Operating Temperature Storage Temperature

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

Consumption Total Heat Dissipation (BTU)

Relative Humidity (Non condensing)

- Active-Active - Active-Passive with state synchronization

Administration & System Management - Web-based configuration wizard - Role-based Access control

- Command Line Interface (Serial, SSH, Telnet)

- AD Integration and OU-based Security Policies - Automatic Windows/RADIUS Single Sign On

- Thin Client support
 - 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

- External LDAP/LDAPS/RADIUS database Integration

- Secure Authentication – AD, LDAP, Radius - Clientless Users

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

 On-Appliance Cyberoam-iView Reporting

 Integrated Web-based Reporting tool

 1,200+ drilldown reports

 Compliance reports - HIPAA, GLBA, SOX, PCI, FISMA

 Zone based application reports

 Historical and Real-time reports

 Default Dashboards: Traffic and Security

 Username, Host, Email ID specific Monitoring Dashboard

 Reports - Application, Internet & Web Usage, Mail Usage, Attacks, Spam, Virus, Search Engine, User Threat

 Quotient (UTQ) for high risk users 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

- Inter-operability with major IPSec VPN Gateways

- VPNC - Basic and AES interoperability
 - 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%

beroam

A SOPHOS Company

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SNMP (v1, v2c)
 Multi-lingual : English, Chinese, Hindi, French, Japanese
 Cyberoam Central Console (Optional)

- Stateful Failover with LAG Support

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

- Inbuilt Application Category Database
 Control over 2,000+ Applications classified in 21
- Categories
- Filter based selection: Category, Risk Level, Characteristics and Technology

- and rectinitogy
 Schedule-based access control
 Visibility and Controls for HTTPS based Micro-Apps like Facebook chat, Youtube video upload
 Securing SCADA Networks
 SCADA/ICS Signature-based Filtering for Protocols Modbus, DNP3, IEC, Bacnet, Omron FINS, Secure DND2 Leastblity DNP3, Longtalk
 - Control various Commands and Functions

Web Application Firewall

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

- Bandwidth Management Application, Web Category and Identity based Bandwidth
- Management Guaranteed & Burstable bandwidth policy - Application & User Identity based Traffic Discovery - Data Transfer Report for multiple Gateways

Interface types: Alias, Multiport Bridge, LAG (port trunking), VLAN, WWAN, TAP

DNS-based inbound load balancing
- IP Address Assignment - Static, PPPoE (with Schedule Management), L2TP, PPTP & DDNS, Client, Proxy ARP, Multiple DHCP Servers support, DHCP relay
- Supports HTTP Proxy, Parent Proxy with FQDN
- Dynamic Routing: RIP v1& v2, OSPF, BGP, PIM-SIM,

- Dual Stack Architecture: Support for IPv4 and IPv6 Protocols

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 1.1 - 21/03/2016

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Networking - WRR based Multilink Load Balancing

Multicast Forwarding - Discover mode for PoC Deployments

IPv6 Route: Static and Source
IPv6 tunneling (6in4, 6to4, 6rd, 4in6)
Alias and VLAN
DNSv6 and DHCPv6 Services

Firewall security over IPv6 traffic
High Availability for IPv6 networks

*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.

Management over IPv6

IPv6 Support:

- Automated Failover/Failback