

Future-ready Security for SME networks



Cyberoam

ففقت فالمعالم فالمتعا المستعا



Data Sheet

CRIOOiNG

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

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.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	
Hardware Bypass Segment"	
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System Performance

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Firewall Throughput (UDP) (Mbps)	8,000
Firewall Throughput (TCP) (Mbps)	5,000
New sessions/second	60,000
Concurrent sessions	3,000,000
IPSec VPN Throughput (Mbps)	1,050
No. of IPSec Tunnels	4,000
SSL VPN Throughput (Mbps)	400
WAF Protected Throughput (Mbps)	700
Anti-Virus Throughput (Mbps)	2,200
IPS Throughput (Mbps)	2,500
UTM Throughput (Mbps)	1,050

Stateful Inspection Firewall

- Layer 8 (User Identity) Firewall
 Multiple Security Zones
- Location-aware and Device-aware Identity-based Access
- 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 Spacific NAT Policy

- 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

- 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/S, POP3, IMAP, IM, **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 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
- page CIPA Compliant

Toll Free Numbers

- Data leakage control by blocking HTTP and HTTPS

For list of compatible platforms, refer to OS Compatibility Matrix on Cyberoam DOCS.

- upload

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Schedule-based access control
Custom Denied Message per Web Category
Safe Search enforcement, YouTube for Schools

8

1 2 2

Yes

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

- Firewall security over IPv6 traffic

High Availability

- High Availability for IPv6 networks

- Active-Active - Active-Passive with state synchronization

Administration & System Management

- UI Color Styler - Command Line Interface (Serial, SSH, Telnet)

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

- External LDAP/LDAPS/RADIUS database Integration - Thin Client support - 2-factor authentication: 3rd party support**

- Secure Authentication – AD, LDAP, Radius - Clientless Users - Authentication using Captive Portal

Log Viewer - IPS, Web filter, WAF, Anti-Virus, Anti-Spam, Authentication, System and Admin Events - Forensic Analysis with quick identification of network

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, Sparn, 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
 Import Connection configuration

- Global Support Excellence - ITIL compliance (ISO 20000)

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

10 to 90%

beroam

SOPHOS Company

-25 to 75 °C

99W

338

SNMP (v1, v2, v3)
 Multi-lingual : English, Chinese, Hindi, French, Japanese
 Cyberoam Central Console (Optional)

- Stateful Failover with LAG Support

Web-based configuration wizard
 Role-based Access control

- Support of API - Firmware Upgrades via Web UI - Web 2.0 compliant UI (HTTPS)

- SMS (Text-based) Authentication

Logging/Monitoring - Real-time and historical Monitoring

attacks and other traffic anomalies

On-Appliance Cyberoam-iView Reporting - Integrated Web-based Reporting tool

Syslog support4-eye Authentication

IPSec VPN Client***

- Common Criteria - EAL4+

- ICSA Firewall - Corporate

- IPv6 Ready Gold Logo

Hardware Specifications

- Checkmark Certification - VPNC - Basic and AES interoperability

Certification

Memory

HDD

Weight

Power

Input Voltage Consumption

Environmental

Compact Flash

Compliance CE FCC

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

Total Heat Dissipation (BTU)

Relative Humidity (Non condensing)

Operating Temperature

Storage Temperature

- Layer 8 Identity over IPv6

User Authentication

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

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 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 DNP3, Longtalk
 - Control various Commands and Functions

Web Application Firewall

- 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 etc.

 - Support for HTTP 0.9/1.0/1.1

 Pack and approxe supported; 5 to 200 approx

- 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
- communicative controls session timeout, Dead Peer Detection, Portal customization TCP based Application Access HTTP, HTTPS, RDP, TELNET, SSH

- IPv6 Support:

on the real network traffic environments. **For details, refer Cyberoam's Technical Alliance Partner list on Cyberoam website. ***Additional Purchase Required.

Protocols

- Alias and VLĂN

Management over IPv6 - IPv6 Route: Static and Source - IPv6 tunneling (6in4, 6to4, 6rd, 4in6)

- DNSv6 and DHCPv6 Services

- 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

Networking - WRR based Multilink Load Balancing - Automated Failover/Failback - Interface types: Alias, Multiport Bridge, LAG (port trunking), VLAN, WWAN, TAP DND based and the stress

Multicast Forwarding - Support of ICAP to integrate third-party DLP, Web Filtering and AV applications - Discover mode for PoC Deployments

TORS-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, Multiple DHCP Servers

- Dual Stack Architecture: Support for IPv4 and IPv6

[#]If Enabled, will bypass traffic only in case of power failure. *Antivirus, IPS and UTM performance is measured based on HTTP traffic as per RFC 3511 guidelines. Actual performance may vary depending

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- Data Transfer Report for multiple Gateways