

## Future-ready Security for SOHO/ROBO networks

CR25iNG

Cyberoam

<u>Future-ready</u>

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	🛐 📑 😂 👀
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

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Firewall Throughput (UDP) (Mbps)	1,800
Firewall Throughput (TCP) (Mbps)	1,200
New sessions/second	6.000
Concurrent sessions	500.000
IPSec VPN Throughput (Mbps)	210
No. of IPSec Tunnels	550
SSL VPN Throughput (Mbps)	75
WAF Protected Throughput (Mbps)	100
Anti-Virus Throughput (Mbps)	350
IPS Throughput (Mbps)	240
UTM Throughput (Mbps)	125

# 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
- Information (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 Turpels **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

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4 Yes

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

**High Availability** 

Support of API

- UI Color Styler

SNMP (v1, v2c)

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 - IPv6 Ready Gold Logo

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

- Checkmark Certification

**Hardware Specifications** 

Memory

HDD

FCC

Weight

Power

Compact Flash

Compliance CE

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

Input Voltage

Environmental

Operating Temperature Storage Temperature

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 - External LDAP/LDAPS/RADIUS database Integration

- SMS (Text-based) Authentication
 - SMS (Text-based) Authentication
 - Layer 8 Identity over IPv6

- Authentication using Captive Portal

Logging/Monitoring - Real-time and historical Monitoring

attacks and other traffic anomalies

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
 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

- 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 33.5W

0 to 40 °C -25 to 75 °C

10 to 90%

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Authentication, System and Admin Events - Forensic Analysis with quick identification of network

- 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 reclinicogy
   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 DNP3, Longtalk 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 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
   Verlapping 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

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,

- Discover mouse terminate term

\*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. \*\*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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Data Transfer Report for multiple Gateways

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

Management over IPv6

- Automated Failover/Failback