





**Future-ready Security for SOHO/ROBO networks** 

**CR35ING** 

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















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**

- 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**

- Next-Gen UI



# **Specification**

Interfaces	
Copper GbE Ports	6
Configurable Internal/DMZ/WAN Ports	Yes
Console Ports (RJ45)	1
USB Ports	2

System Performance*	
Firewall Throughput (UDP) (Mbps)	2,300
Firewall Throughput (TCP) (Mbps)	2,000
New sessions/second	12.000
Concurrent sessions	350.000
IPSec VPN Throughput (Mbps)	250
No. of IPSec Tunnels	150
SSL VPN Throughput (Mbps)	100
WAF Protected Throughput (Mbps)	150
Anti-Virus Throughput (Mbps)	525
IPS Throughput (Mbps)	350
UTM Throughput (Mbps)	210

### 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
   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, 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
- Filter based of message header, size, serider, 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
- Data leakage control by blocking HTTP and HTTPS
- Schedule-based access control
   Custom Denied Message per Web Category
   Safe Search enforcement, YouTube for Schools

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

- 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
   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
   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

- Networking
   WRR based Multilink Load Balancing
   Automated Failover/Failback
- Interface types: Alias, Bridge Pair, LAG (port trunking), VLAN, WLAN#, WWAN
- VLAN, WLANF, WWAN
   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, Multicast Forwarding
- IPv6 Support:
   Dual Stack Architecture: Support for IPv4 and IPv6 Protocols
- Management over IPv6
- IPv6 routing protocols
  IPv6 tunneling (6in4, 6to4, 6rd, 4in6)
  Alias and VLAN
- DNSv6 and DHCPv6 Services
- Firewall security over IPv6 traffic

#### High Availability

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

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

- Support of API - Firmware Upgrades via Web UI - Web 2.0 compliant UI (HTTPS)
- UI Color Styler Command Line Interface (Serial, SSH, Telnet)
- SNMP (v1, v2, v3)
   Multi-lingual : English, Chinese, Hindi, French, Japanese - Cyberoam Central Console (Optional)

## User Authentication

- Internal database

- AD Integration and OU-based Security Policies
   Automatic Windows Single Sign On
   External LDAP/LDAPS/RADIUS database Integration
- Thin Client support
- 2-factor authentication: 3rd party support\*\*
   SMS (Text-based) Authentication
   Layer 8 Identity over IPv6

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

#### Logging/Monitoring

- Real-time and historical Monitoring
   Log Viewer IPS, Web filter, WAF, Anti-Virus, Anti-Spam, Authentication, System and Admin Events
   Forensic Analysis with quick identification of network attacks and other traffic anomalies
- Syslog support - 4-eye Authentication



250GB or higher

100-240 VAC

47.8W

163

- On-Appliance Cyberoam-iView Reporting
  Integrated Web-based Reporting tool Cyberoam-iView-1,200+ drilldown reports
  Compliance reports HIPAA, GLBA, SOX, PCI, FISMA
- 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

- Reports Application, Internet & Web Usage, Mail Usage, 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

#### IPSec VPN Client\*\*\* - Inter-operability with major IPSec VPN Gateways

- Import Connection configuration
- Certification
- Common Criteria EAL4+
   ICSA Firewall Corporate
- Checkmark Certification
- VPNC Basic and AES interoperability
- IPv6 Ready Gold Logo - Global Support Excellence - ITIL compliance (ISO 20000)

Hardware Specifications Memory 2GB Compact Flash HDD 2GB

# Compliance

# FCC

Dimensions 1.7 x 6 x 9.1 H x W x D (inches) 4.4 x 15.3 x 23.2 H x W x D (cms) 2.3 kg, 5.07 lbs Weiaht

## Input Voltage Consumption Total Heat Dissipation (BTU)

**Environmental** Operating Temperature Storage Temperature Relative Humidity (Non condensing) 0 to 40 °C -25 to 75 °C 10 to 90%

\*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 1.0 - 23/08/2013

