





**Future-ready Security for SME networks** 

# **CRIOOING**

Data Sheet



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

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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**

- 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**

- Next-Gen UI



# **Specification**

Copper GbE Ports	8
Configurable Internal/DMZ/WAN Ports	Yes
Console Ports (RJ45)	1
USB Ports	2
Hardware Bypass Segment <sup>#</sup>	2
**	

### System Performance

System renormance	
Firewall Throughput (UDP) (Mbps)	4.500
Firewall Throughput (TCP) (Mbps)	3.500
New sessions/second	45.000
Concurrent sessions	1.250.000
IPSec VPN Throughput (Mbps)	450
No. of IPSec Tunnels	250
SSL VPN Throughput (Mbps)	400
WAF Protected Throughput (Mbps)	700
Anti-Virus Throughput (Mbps)	1.400
IPS Throughput (Mbps)	1,200
UTM Throughput (Mbps)	750

### Stateful Inspection Firewall

- Layer 8 (User Identity) FirewallMultiple 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
- 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 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 DigestIP 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

- 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 composition and transfer of the support for the sup
- 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)
- Username/Password

   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, WLAN, 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

- Forwarding
  Support of ICAP to integrate third-party DLP, Web
- Filtering and AV applications
- 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 support4-eye Authentication



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

- 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, 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)

- 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 Compact Flash HDD 250GB or higher

# Compliance

Power

# FCC

**Dimensions** 1.7 x 14.6 x 17.3 4.4 X 37.2 X 44 H x W x D (inches) H x W x D (cms) 5 kg, 11.02 lbs Weight

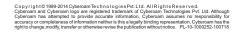
Input Voltage Consumption Total Heat Dissipation (BTU)

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

"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 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.

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