





Future-ready Security for Large Enterprise networks

CR2500iNG

Data Sheet



The Cyberoam NG series for enterprises offer Next-Generation Firewall (NGFW) capabilities with high performance required for future enterprise networks. These Next-Generation Network security appliances offer inline application inspection and control, HTTPS inspection, Intrusion Prevention System, malware protection, secure remote access via VPN (IPSec and SSL) and granular bandwidth controls. The inline Layer 8 Identity-based controls with on-appliance reporting offer complete control & real-time visibility over user and network activities.

Based on best-in-class hardware along with software to match, the NG series enables unprecedented throughput speeds for future-ready security in large enterprise networks.

Cyberoam NG series for large enterprises offer assured Security, Connectivity and Productivity. Its 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 Large Enterprises:

Offering Next-Generation Firewall protection to large enterprises

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**

### Interfaces

Copper GBE Ports 1GbE SFP (Mini GBIC) Ports 10GbE SFP (Mini GBIC) Ports***	14 4 2
Configurable Internal/DMZ/WAN Ports	Yes
Console Ports (RJ45)	1
USB Ports	2
Hardware Bypass Segments	2 <sup>#</sup>
RAID 1 (with two disk)	Yes

### System Performance\*

-,	
Firewall throughput (UDP) (Mbps)	36.000
Firewall throughput (TCP) (Mbps)	28.000
New sessions/second	200,000
Concurrent sessions	3.500.000
IPSec VPN throughput (Mbps)	8.000
No. of IPSec Tunnels	3.000
SSL VPN throughput (Mbps)	1.000
WAF throughput (Mbps)	1.000
Anti-Virus throughput (Mbps)	6.000
IPS throughput (Mbps)	6.000
UTM throughput (Mbps)	4.000

# Stateful Inspection Firewall - Layer 8 (User - Identity) Firewall

- Multiple Security Zones
- Multiple Security Zones
   Access Control Criteria (ACC) User Identity, Source &
  Destination Zone, MAC and IP address, Service
   UTM policies IPS, Web Filtering, Application Filtering,
  Anti-Virus, Anti-Spam and Bandwidth Management
- Layer 7 (Application) Control & Visibility Access Scheduling Policy based Source & Destination NAT

- H.323, SIP NAT Traversal 802.1q VLAN Support DoS & DDoS Attack prevention
- MAC & IP-MAC filtering and Spoof prevention

- Gateway Anti-Virus & Anti-Spyware
   Virus, Worm, Trojan: Detection & 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 Add disclaimer/signature

- Gateway Anti-Spam
   Inbound/Outbound Scanning
   Real-time Blacklist (RBL), MIME header check
- Filter based on message header, size, sender, recipient Subject line tagging IP address Black list/White list

- Redirect Spam mails to dedicated email address Image-based Spam filtering using RPD Technology Zero hour Virus Outbreak Protection

- Self Service Quarantine area Spam Notification through Digest IP Reputation-based Spam filtering

- Intrusion Prevention System
   Signatures: Default (4500+), Custom
- IPS Policies: Multiple, Custom
- User-based policy creation Automatic real-time updates from CRProtect networks
- Protocol Anomaly Detection
- DDoS attack prevention

- Web Filtering
  -Inbuilt Web Category Database
  -URL, keyword, File type block
  -Categories: Default(82+), Custom
  -Protocols supported: HTTP, HTTPS
  -Block Malware, Phishing, Pharming URLs
  -Schedule-based access control
- Custom block messages per category
- Block Java Applets, Cookies, Active XCIPA Compliant
- Data leakage control via HTTP, HTTPS upload

- Application Filtering
   Inbuilt Application Category Database
- 11+ Application Categories: e.g. Gaming, IM, P2P, Proxy
- Schedule-based access control

- P2P applications e.g. Skype
   Anonymous proxies e.g. Ultra surf
   "Phone home" activities

- Keylogger Layer 7 (Applications) & Layer 8 (User Identity) Visibility

- 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
   Support for HTTP 0.9/1.0/1.1
   Extensive Logging & Reporting

- 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

- SSL VPN
  -TCP & UDP Tunneling
   Authentication Active Directory, LDAP, RADIUS,
- Cyberoam Multi-layered Client Authentication Certificate, Username/Password

- User & Group policy enforcement
   Network access Split and Full tunneling
   Browser-based (Portal) Access Clientless access
   Lightweight SSL VPN Tunneling 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

# Instant Messaging (IM) Management - Yahoo and Windows Live Messenger

- Virus Scanning for IM traffic
- Allow/Block Login Allow/Block File Transfer
- -Allow/Block Webcam
- Allow/Block one-to-one/group chat Content-based blocking
- IM activities Log
- -Archive files transferred

# - Custom Alerts

- Wireless WAN USB port 3G/4G and Wimax Support
- Primary WAN link
- WAN Backup link

- Bandwidth Management
   Application and User Identity based Bandwidth Management - Guaranteed & Burstable bandwidth policy
- Application & User Identity based Traffic Discovery
- Multi WAN bandwidth reporting Category-based bandwidth restriction

# User Identity and Group Based Controls - Access time restriction

- Time and Data Quota restriction
- Schedule based Committed and Burstable Bandwidth
   Schedule based P2P and IM Controls

- Networking
   Failover Automated Failover/Failback, Multi-WAN failover, 3GModem failover
- WRR based load balancing
- Policy routing based on Application and User
   IP Address Assignment Static, PPPoE, L2TP, PPTP &
- DDNS Client, Proxy ARP, DHCP server, DHCP relay
   Support for HTTP Proxy
   Dynamic Routing: RIP v1& v2, OSPF, BGP, Multicast
- Forwarding Parent Proxy support with FQDN
- "IPv6 Ready" Gold Logo

### **High Availability**

- Active-Active Active-Passive with State Synchronization
- Stateful failover
- -Alerts on appliance status change

### Administration & System Management

- Web-based configuration wizard
   Role-based access control
- Firmware Upgrades via Web UI
- Web 2.0 compliant UI (HTTPS) UI Color Styler
- Command Line Interface (Serial, SSH, Telnet) - SNMP (v1, v2c, v3)
- Multi-lingual support: Chinese, Hindi, French, Korean Cyberoam Central Console (Optional)
- NTP Support

### **User Authentication**

- Internal database
- Active Directory Integration Automatic Windows Single Sign On
- External LDAP/RADIUS database integration
- Thin Client support Microsoft Windows Server 2003 Terminal Services and Citrix XenApp - Novell eDirectory
- -RSA SecurID support
- External Authentication Users and Administrators
- User/MAC Binding
- Multiple Authentication servers

## Logging/Monitoring

- Graphical real-time and historical monitoring
- Email notification of reports, gateway status, viruses and attacks
- Syslog support
- Log Viewer Firewall, IPS, Web filter, Anti Virus, Anti Spam, Authentication, System and Admin Events

LVIEW

## On-Appliance Cyberoam-iView Reporting

- Integrated Web-based Reporting tool -Cyberoam-iView
- · 1000+ drilldown reports
- 45+ Compliance Reports
   Historical and Real-time reports
- Multiple Dashboards
- Username, Host, Email ID specific Monitoring Dashboard
- Reports Security, Virus, Spam, Traffic, Policy violations, VPN, Search Engine keywords
- Multi-format reports tabular, graphical Exportable formats PDF, Excel Automated Report Scheduling

- IPSec VPN Client\*\*
- Inter-operability with major IPSec VPN Gateways
   Supported platforms: Windows 2000, WinXP 32/64-bit, Windows 2003 32-bit, Windows 2008 32/64-bit, Windows Vista 32/64-bit, Windows 7 RC1 32/64-bit
- Import Connection configuration

- Certification
- ICSA Firewall Corporate
- Checkmark UTM Level 5 Certification VPNC Basic and AES interoperability "IPv6 Ready" Gold Logo

## **Hardware Specifications**

Memory HDD (HOT Swappable) 6GB 250GB or higher

Compliance CE / FCC / UL

**Dimensions** 

HxWxD (inches) HxWxD (cms) 3.54 x 17.52 x 23.23 9 x 44.5 x 59 Weight 19kg, 41.8lbs

Input Voltage 90-260 VAC Consumption
Total Heat Dissipation (BTU) 258 W 881 Redundant Power Supply Yes

Environmental Operating Temperature 0 to 40 °C -25 to 75 °C Storage Temperature 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. \*\*\*Appliances with variant SFP ports available. Actual performance may vary depending on the real network traffic environments. \*\*Additional Purchase Required. \*\*Inbound and Outbound Spam filtering cannot be used simultaneously.



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

