





Future-ready Security for Large Enterprise networks

CR 2500iNG

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 futureready 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

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

System Performance*

Firewall throughput (UDP) (Mbps)	40.000
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)	4,500

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

- Multiple Security Zones
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 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 X
 CIPA 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

- 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
- 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 one-to-one/group chat Content-based blocking

- 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

- Multi WAN bandwidth reporting
 Category-based bandwidth 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
- 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

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)
- 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) 6GR 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 Storage Temperature Relative Humidity (Non condensing) -25 to 75 °C 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. **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

www.cyberoam.com | sales@cyberoam.com



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

- resources

- -Allow/Block Webcam
- IM activities Log

- Application & User Identity based Traffic Discovery
- User Identity and Group Based Controls Access time restriction

- WRR based load balancing
- Parent Proxy support with FQDN - "IPv6 Ready" Gold Logo