





Future-ready Security for SME networks

CR200ING

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 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: The fastest UTMs made for SMEs

> 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









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Specification

Interfaces Copper GbE Ports Configurable Internal/DMZ/WAN Ports 10 Yes Console Ports (RJ45) USB Ports Hardware Bypass Segment*

System Performance*

Firewall Throughput (UDP) (Mbps)	10,000
Firewall Throughput (TCP) (Mbps)	8,000
New sessions/second	70,000
Concurrent sessions	1,500,000
IPSec VPN Throughput (Mbps)	800
No. of IPSec Tunnels	300
SSL VPN Throughput (Mbps)	450
WAF Protected Throughput (Mbps)	1,000
Anti-Virus Throughput (Mbps)	2,200
IPS Throughput (Mbps)	2,000
UTM Throughput (Mbps)	1,200

Stateful Inspection Firewall - Layer 8 (User - Identity) Firewall - Multiple Security Zones

- Multiple Security Zones
 Access Control Criteria (ACC): User Identity, Source and Destination Zone, MAC and IP address, Service
 UTM policies IPS, Web Filtering, Application Filtering, Anti-Virus, Anti-Spam and Bandwidth Management

- Annie-Villas, Anie-Spani and Bandwidth Mar Application (Layer 7) Control and Visibility -Access Scheduling -Policy based Source and Destination NAT -H.323, SIP NAT Traversal -802.1q VLAN Support

- DoS and DDoS Attack prevention MAC and IP-MAC filtering and Spoof prevention

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 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
- SCADA-aware IPS with pre-defined category for ICS and SCADAsignatures

- 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
 2,000+ Applications Supported
- Schedule-based access control - Block
- Proxy and Tunnel
- File Transfer Social Networking

Toll Free Numbers

- Streaming Media Storage and Backup
- "If Enabled, will bypass traffic only in case of power failure. **Additional Purchase Required.

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

- 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 and Spoke VPN support

- TCP and UDP Tunneling Authentication Active Directory, LDAP, RADIUS, Cyberoam (Local)

 Multi-layered Client Authentication - Certificate,
- Username/Password
- User and 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 and Burstable bandwidth policy
 Application and 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

Forwarding

- 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 and v2, OSPF, BGP, Multicast
- 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 and 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, v2, v3) Multi-lingual support: Chinese, Hindi, French, Korean
- Cyberoam Central Console (Optional) Network Time Protocol Support

User Authentication

- Internal database

- -Active Directory Integration
 -Automatic Windows Single Sign On
 External LDAP/RADIUS database integration
 Thin Client support Microsoft Windows Server 2003/2008 Terminal Services and Citrix XenApp - Novell eDirectory
- RSA SecurID support
- External Authentication Users and Administrators User/MAC Binding Multiple Authentication servers

Logging and Monitoring

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

On-Appliance Cyberoam-iView Reporting



250GB or higher

100-240 VAC

137W

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- 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**
- Supported platforms: Windows 2000, WinXP 32/64-bit, Windows 2003 32-bit, Windows 2008 32/64-bit, Windows
- Vista 32/64-bit, Windows 7 32/64-bit - Import Connection configuration

- Certification
- Common Criteria EAL4+
 ICSA Firewall Corporate
 Checkmark UTM Level 5 Certification
- VPNC Basic and AES interoperability "IPv6 Ready" Gold Logo

Hardware Specifications Memory 2GB Compact Flash 4GB

HDD

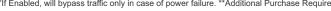
Compliance CE FCC

Power

Dimensions HxWxD (inches) 1.7 x 17.3 x 11.85 4.4 X 43.9 X 30.1 HxWxD(cms) Weight 5.1 kg, 11.24 lbs

Input Voltage Consumption Total Heat Dissipation (BTU)

Environmental Operating Temperature Storage Temperature 0 to 40 °C 0 to 70 °C Relative Humidity (Non condensing) 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.