





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 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



Specification

| Interfaces | |
|-------------------------------------|-----|
| Copper GbE Ports | 8 |
| Configurable Internal/DMZ/WAN Ports | Yes |
| Console Ports (Rj45) | 1 |
| USB Ports | 2 |
| Hardware Bypass Segment" | 2 |
| ** | |

System Performance

| Firewall Throughput (UDP) (Mbps) | 8,000 |
|----------------------------------|-----------|
| Firewall Throughput (TCP) (Mbps) | 5,000 |
| New sessions/second | 60,000 |
| Concurrent sessions | 3,000,000 |
| IPSec VPN Throughput (Mbps) | 1,050 |
| No. of IPSec Tunnels | 4,000 |
| SSL VPN Throughput (Mbps) | 400 |
| WAF Protected Throughput (Mbps) | 700 |
| Anti-Virus Throughput (Mbps) | 2,200 |
| IPS Throughput (Mbps) | 2,500 |
| UTM Throughput (Mbps) | 1,050 |
| | |

Stateful Inspection Firewall

- Layer 8 (User Identity) Firewall Multiple Security Zones
- Location-aware and Device-aware Identity-based Access - 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/S, POP3, IMAP, IM,
- VPN Tunnels
- Customize individual user scanning Self Service Quarantine area
- Scan and deliver by file sizeBlock 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, serioer, 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
- CIPA Compliant
- Data leakage control by blocking HTTP and HTTPS upload
- 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
- Filter based selection: Category, Risk Level, Characteristics and Technology

- and Technology
 Schedule-based access control
 Visibility and Controls for HTTPS based Micro-Apps like
 Facebook chat, Youtube video upload
 Securing SCADA Networks
 SCADAVICS 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 Serpen

- 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

- Automated Failover/Failback
 Interface types: Alias, Multiport Bridge, LAG (port trunking), VLAN, WWAN, TAP
 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, PIM-SIM, Multicast Footpading
- Multicast Forwarding
 Support of ICAP to integrate third-party DLP, Web
- Filtering and AV applications

 Discover mode for PoC Deployments
- IPv6 Support:
 Dual Stack Architecture: Support for IPv4 and IPv6 Protocols

 - Management over IPv6
 IPv6 Route: Static and Source
 IPv6 tunneling (6in4, 6to4, 6rd, 4in6)
 Alias and VLAN
- DNSv6 and DHCPv6 Services

- Firewall security over IPv6 trafficHigh Availability for IPv6 networks

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

- Command Line Interface (Serial, SSH, Telnet)

User Authentication

- External LDAP/LDAPS/RADIUS database Integration

- SMS (Text-based) Authentication
- Layer 8 Identity over IPv6

 - 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

- Integrated Web-based Reporting tool
 1,200+ drilldown reports
 Compliance reports HIPAA, GLBA, SOX, PCI, FISMA
 Zone based application reports
 Historical and Real-time reports
 Historical and Real-time 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, User Threat
 Quotient (UTQ) for high risk users 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 Compact Flash 4GB 250GB or higher HDD

Compliance CE

FCC

Dimensions H x W x D (inches) H x W x D (cms) 1.7 x 14.6 x 17.3 4.4 X 37.2 X 44

5 kg, 11.02 lbs

100-240 VAC

10 to 90%

99W

338

Power Input Voltage Consumption

Total Heat Dissipation (BTU)

Relative Humidity (Non condensing)

Weight

Environmental Operating Temperature Storage Temperature 0 to 40 °C -25 to 75 °C

"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.





LVIEW

- Support of API
- Firmware Upgrades via Web UI
- Web 2.0 compliant UI (HTTPS)
- UI Color Styler

- SNMP (v1, v2c) - Multi-lingual : English, Chinese, Hindi, French, Japanese

- Cyberoam Central Console (Optional)

- Internal database
- AD Integration and OU-based Security Policies Automatic Windows/RADIUS Single Sign On
- Thin Client support 2-factor authentication: 3rd party support**
- Secure Authentication AD, LDAP, Radius
- Clientless Users