





Future-ready Security for SME networks

CR50ING

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 Configurable Internal/DMZ/WAN Ports Console Ports (RJ45) Yes USB Ports Hardware Bypass Segment

System Performance

Firewall Throughput (UDP) (Mbps)	6,500
Firewall Throughput (TCP) (Mbps)	4,000
New sessions/second	45,000
Concurrent sessions	1,000,000
IPSec VPN Throughput (Mbps)	850
No. of IPSec Tunnels	2,000
SSL VPN Throughput (Mbps)	300
WAF Protected Throughput (Mbps)	450
Anti-Virus Throughput (Mbps)	1,500
IPS Throughput (Mbps)	1,600
UTM Throughput (Mbps)	850

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

- Policy based source and Desunat 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,

- 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

- Schedule-based access control
 Visibility and Controls for HTTPS based Micro-Apps like
 Facebook chat, Youtube video upload
 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

 Poly and converse uncerted: 5 to 200 converse.
- 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 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
 Interface types: Alias, Multiport Bridge, LAG (port trunking), VLAN, WWAN, TAP
- Trunking), VLAN, WWAN, IAP

 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 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
 - Management over 1Pv6
 IPv6 Route: Static and Source
 IPv6 tunneling (6in4, 6to4, 6rd, 4in6)
 - Alias and VLĂÑ - DNSv6 and DHCPv6 Services

- Firewall security over IPv6 traffic
- High Availability for IPv6 networks

- 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/RADIUS 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



250GB or higher

100-240 VAC

99W

338

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

Compliance CE FCC

HDD

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 Weight 5 kg, 11.02 lbs

Input Voltage Consumption Total Heat Dissipation (BTU)

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

"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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