





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

8 Yes Configurable Internal/DMZ/WAN Ports Console Ports (RJ45) Hardware Bypass Segment# 2

System Performance*
Firewall Throughput (UDP) (Mbps)
Firewall Throughput (TCP) (Mbps) 3,250 3.000 New sessions/second Concurrent sessions 30,000 1,000,000 IPSec VPN Throughput (Mbps) No. of IPSec Tunnels 400 200 300 SSL VPN Throughput (Mbps)
WAF Protected Throughput (Mbps)
Anti-Virus Throughput (Mbps) 1,000 750 IPS Throughput (Mbps) UTM Throughput (Mbps) 550

- 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
- 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, POP3, IMAP, IM, VPN Tunnels
- Customize individual user scanning
 Self Service Quarantine area
 Scan and deliver by file size

- Block 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
 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 Digest IP 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
- pages
 CIPA Compliant
- Data leakage control by blocking HTTP and HTTPS unload
- 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 Categories
- Filter based selection: Category, Risk Level,

- Filter based selection. Category, Risk Level,
 Characteristics and Technology
 Schedule-based access control
 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

 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

- IPSec NAI Traversai
 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, - 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, Bridge Pair, LAG (port trunking), VLAN, WLAN, WWAN
- VLAN, WLAN, WWAN

 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, Multicast

- Forwarding
 Support of ICAP to integrate third-party DLP, Web
- Filtering and AV applications
- IPv6 Support:
 Dual Stack Architecture: Support for IPv4 and IPv6 Protocols

- FIGUREUS

 Invariant over IPv6
 IPv6 routing protocols
 IPv6 tunneling (6in4, 6to4, 6rd, 4in6)
 Alias and VLAN
 PNS-6 and PUSS 6 6 7

- Firewall security over IPv6 traffic

- DNSv6 and DHCPv6 Services

High Availability

- Active-Active
- Active-Passive with state synchronization Stateful Failover with LAG Support

Administration & System Management - Web-based configuration wizard

- Web-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 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

On-Appliance Cyberoam-iView Reporting

- On-Appliance Cyberoam-iView Reporting
 Integrated Web-based Reporting tool Cyberoam-iView
 1,200+ drilldown reports
 Compliance reports HIPAA, GLBA, SOX, PCI, FISMA
 Zone based application 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 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 2GB 4GB HDD 250GB or higher

Compliance

CE FCC

Dimensions H x W x D (inches) 1.7 x 14.6 x 17.3 H x W x D (cms) 4.4 X 37.2 X 44 5 kg, 11.02 lbs Weiaht

Input Voltage Consumption
Total Heat Dissipation (BTU)

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