





Data Sheet



Future-ready Security for SOHO/ROBO networks

CRISING

Cyberoam NG series of Unified Threat Management appliances are the Next-Generation network security appliances that include UTM security features and performance required for future networks. The NG series for SOHO offer "the fastest UTMs made for SMBs" to small offices. 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 for small office networks.

With Cyberoam NG series, businesses get assured Security, Connectivity and Productivity. The Layer 8 Technology treats User-Identity as the 8th Layer 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 for SOHO:

Offering "the fastest UTMs made for SMBs" to Small Offices

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

Content Security

- Anti-Virus/Anti-Spyware
- Anti-Spam
- HTTPS/SSL Content Security

Administrative Security

- Next-Gen UI



Connectivity

Business Continuity

- Multiple Link Management

Network Availability

- VPN
- 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	3
Configurable Internal/DMZ/WAN Ports	Yes
Console Ports (RJ45)	1
USB Ports	2

System Performance*

Firewall throughput (UDP) (Mbps)	1,200
Firewall throughput (TCP) (Mbps)	900
New sessions/second	5,000
Concurrent sessions	200,000
IPSec VPN throughput (Mbps)	130
No. of IPSec Tunnels	300
SSL VPN Throughput (Mbps)	50
Anti-Virus throughput (Mbps)	200
IPS throughput (Mbps)	160
UTM throughput (Mbps)	90

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

- Security policies Ir-3, 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 Destinat 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
- Filter based selection: Category, Seventy, Flationn and Target (Client/Server)
 IPS actions: 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/S, POP3, IMAP, IM,
- VPN Tunnels
- Customize individual user scanning
- Scan and deliver by file size
- Block by file types
- Add disclaimer/signature

Gateway Anti-Spam - Inbound Scanning

- Real-time Blacklist (RBL), MIME header check
- Filter based on message header, size, sender, recipient
- Subject line tagging
- Redirect spam mails to dedicated email address
- Language and Content-agnostic spam protection using RPD Technology
 - Zero Hour Virus Outbreak Protection
 - 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, Custom

- 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 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
- Inbuilt Application Category Database
- Control over 2,000 + Applications classified in 21 Categories
- Filter based selection: Category, Risk Level,
- Characteristics and Technology
- Schedule-based access control Visibility and Controls for HTTPS based Micro-Apps like
- visionity and Controls for HTTPs based Micro-Apps lik 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

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

 White analysis.
- 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,
- Wulnayered orient 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
- Schedule-based Guaranteed & Burstable bandwidth
- 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
- DNS-based inbound load balancing
- IP Address Assignment Static, PPPoE, L2TP, PPTP & DDNS, Client, Proxy ARP, Multiple DHCP Servers support,
- DDINS, client, Proxy Arr, initiative briof Sciences Soldholder Proxy Brion Sciences Sciences
- IPv6 Support:
 - Dual Stack Architecture: Support for IPv4 and IPv6 Protocols
 - IPv6 Route: Static and Source
 - IPv6 tunneling (6in4, 6to4, 6rd, 4in6)
 Alias and VLAN
 DNSv6 and DHCPv6 Services

 - Firewall security over IPv6 traffic
 High 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
- 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, v2c)
- NTP Support - Multi-lingual support: English, Chinese, Hindi, French,
- Cyberoam Central Console/CCMS (Optional)

User Authentication

- Internal database
- Mileman database
 AD Integration with support for OU-based Security Policies
 Automatic Windows/RADIUS Single Sign On
 External LDAPI/DAPS/RADIUS database Integration
 Thin Client support
 2-factor authentication: 3rd party support**

- 2-factor atunernication, ord party support
 User/MAC Binding
 SMS (Text-based) Authentication
 Layer 8 Identity over IPv6
 Secure Authentication AD, LDAP, Radius
 - Clientless Users
 - Authentication using Captive Portal

- Logging/Monitoring
 Graphical real-time logging and monitoring
- Syslog support
- Log Viewer Firewall, IPS, Web filter, Anti Virus, Anti Spam, Authentication, System and Admin Events

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

Consumption
Total Heat Dissipation (BTU)

Relative Humidity (Non condensing)

Memory 2GB Storage 4GB

Compliance

CE FCC

Dimensions

H x W x D (inches) H x W x D (cms) $1.7 \times 6 \times 9.1$ 4.4 x 15.3 x 23.2 Weight 1.5 kg, 3.307 lbs

100-240 VAC

13.2W

10 to 90%

45

Power Input Voltage

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

*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.

Applicable to Hardware Version 1.1 - 21/03/2016