





**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 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:

The fastest UTMs made for SMEs

Cyberoam's Layer 8 Technology treats "User Identity" as the 8th Layer in the protocol stack













L8 USER
L7 Application

L6 Presentation ASCII, EBCDIC, ICA
L5 Session

L2TP, PPTP

L4 Transport

TCP, UDP

L3 Network

192.168.1.1

L2 Data Link

00-17-BB-8C-E3-E7

L1 Physical

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**

- 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 10 Configurable Internal/DMZ/WAN Ports Console Ports (RJ45) Yes **USB Ports** Hardware Bypass Segment\*

### System Performance\*

System renormance	
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) FirewallMultiple Security Zones
- Location-aware and Device-aware Identity-based
- Cocaton Favine and Device-aware identify-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
- 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, 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
- Filter based of message fleader, 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
- pages
   CIPA Compliant
   Data leakage control by blocking HTTP and HTTPS

- 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, 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,
- Hash Algorithms MD5, SHA-1 Authentication: Preshared key, Digital certificates
- IPSec NAT Traversal

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   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 Tunnellion (TET) Technology

- 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, 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

- 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
- Management over IPv6
   IPv6 routing protocols
   IPv6 tunneling (6in4, 6to4, 6rd, 4in6)
   Alias and VLAN
- DNSv6 and DHCPv6 Services
- Firewall security over IPv6 traffic

### **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
- Or 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

- 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



- 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)

- 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

# Compliance

HDD CE

## FCC **Dimensions**

H x W x D (inches) H x W x D (cms) 17 x 17 3 x 11 85 4.4 X 43.9 X 30.1 Weight 5.1 kg, 11.24 lbs

Input Voltage

Power

100-240 VAC Consumption Total Heat Dissipation (BTU) 137W 467

Environmental Operating Temperature Storage Temperature 0 to 40 °C 0 to 70 °C 10 to 90% 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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250GB or higher