

**Unified Threat Management** 

The only UTM to be

ICSA-certified for its

High Availability

criteria and to have

"IPv6 Ready" Gold

logo

Cyberoam CR500ia-10F

**Powerful Unified Threat Management Appliances for Large Enterprises** 







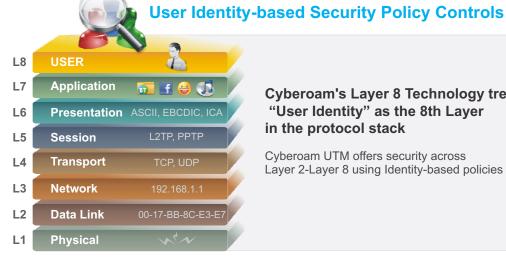




Cyberoam Unified Threat Management appliances offer assured security, connectivity and productivity to large enterprises by allowing user identity-based policy controls.

Cyberoam's User Layer 8 Technology treats user-identity as the 8th Layer or the HUMAN layer in the protocol stack. It attaches user identity to security, taking organizations a step ahead of conventional solutions that bind security to IP-addresses. This adds speed to an organization's security by offering instant visibility into the source of attacks by username rather than IP address - allowing immediate remediation to restore security or allowing proactive security. Layer 8 technology functions along with each of Cyberoam security features to allow creation of identity-based security policies.

Cyberoam's multi-core technology allows parallel processing of all its security features - ensuring security without compromising performance. Its future-ready Extensible Security Architecture (ESA) offers an extensible platform that can grow with the future security needs of an organization without degrading system performance. ESA supports feature enhancements that can be developed rapidly and deployed with minimum efforts.



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
- Wireless security

### **Content Security**

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

### **Administrative Security**

- Next-Gen UI
- iView- Logging & Reporting

# Connectivity

### **Business Continuity**

- Multiple Link Management
- High Availability

### **Network Availability**

- 3G/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 Layer 7 Management

### **Administrator Productivity**

- Next-Gen UI

# **Specification**

10/100/1000 GBE Ports	6
10GbE SFP Mini Ports Configurable Internal/DMZ/WAN Ports	2 Yes
Console Ports (RJ45/DB9) USB Ports	1 2
Hardware Bypass Segments	2*

### System Performance\*\*

System remormance	
Firewall throughput (UDP) (Mbps)	5000
Firewall throughput (TCP) (Mbps)	3000
New sessions/second	25,000
Concurrent sessions	700,000
168-bit 3DES/AES throughput (Mbps)	325/400
WAF Protected Throughput (Mbps)	300
Anti-Virus throughput (Mbps)	750
IPS throughput (Mbps)	1,000
UTM throughput (Mbps)	550

### Stateful Inspection Firewall

- Layer 8 (User Identity) Firewall Multiple Security Zones Access Control Criteria (ACC) User Identity, Source & Destination Zone, MAC and IP address, Service

  - UTM policies - IPS, Web Filtering, Application Filtering,
  Anti-Virus, Anti-Spam and Bandwidth Management
  - Layer 7 (Application) Control & Visibility
  - Access Scheduling

- Policy based Source & Destination NAT H.323, SIP NAT Traversal
- -802.1q VLAN Support
- DoS & DDoS Attack prevention MAC & IP-MAC filtering and Spoof prevention

- Gateway Anti-Virus & Anti-Spyware Virus, Worm, Trojan Detection & 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 Add disclaimer/signature

- Gateway Anti-Spam
   Real-time Blacklist (RBL), MIME header check
   Filter based on message header, size, sender, recipient
- Subject line tagging
   IP address Black list/White list
- Redirect Spam mails to dedicated email address
   Image-based Spam filtering using RPD Technology
   Zero hour Virus Outbreak Protection
   Self Service Quarantine area

- Spam Notification through Digest
- IP Reputation-based Spam filtering

- Intrusion Prevention System
   Signatures: Default (3000+), Custom
   IPS Policies: Multiple, Custom

- User-based policy creation
   Automatic real-time updates from CRProtect networks
   Protocol Anomaly Detection
   DDoS attack prevention

- Web Filtering
   Inbuilt Web Category Database
   URL, keyword, File type block
   Categories: Default(82+), Custom
   Protocols supported: HTTP, HTTPS
   Block Malware, Phishing, Pharming URLs
   Schedule-based access control

- Custom block messages per category Block Java Applets, Cookies, Active X CIPA Compliant
- Data leakage control via HTTP, HTTPS upload

- Application Filtering
   Inbuilt Application Category Database
- Application Categories: e.g. Gaming, IM, P2P,
- Proxy: 11+ Schedule-based access control
- Block
  - P2P applications e.g. Skype Anonymous proxies e.g. Ultra surf
  - "Phone home" activities
  - Keylogger
- Layer 7 (Applications) & Layer 8 (User Identity) Visibility

- 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

   Support for HTTP 0.9/1.0/1.1

   Extensive Logging & Reporting

   Back-end servers supported: 25

- 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
- 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

- SSL VPN
  -TCP & UDP Tunneling
   Authentication Active Directory, LDAP, RADIUS, Cyberoam
- Multi-layered Client Authentication Certificate, Username/Password
- User & Group policy enforcement
- Network access Split and Full tunneling Browser-based (Portal) Access Clientless access Lightweight SSL VPN Tunneling 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

# Instant Messaging (IM) Management - Yahoo and Windows Live Messenger - Virus Scanning for IM traffic

- Allow/Block Login Allow/Block File Transfer Allow/Block Webcam
- -Allow/Block one-to-one/group chat
- Content-based blocking IM activities Log Archive files transferred
- Custom Alerts

### Wireless WAN

- USB port 3G and Wimax Support\*
   Primary WAN link
- WAN Backup link

- Bandwidth Management
   Application and User Identity based Bandwidth Management
  - Guaranteed & Burstable bandwidth policy
  - Application & User Identity based Traffic Discovery

- Multi WAN bandwidth reporting
- Category-based bandwidth restriction

### **User Identity and Group Based Controls**

- -Access time restriction
   Time and Data Quota restriction
- Schedule based Committed and Burstable Bandwidth Schedule based P2P and IM Controls

- Networking
   Failover Automated Failover/Failback, Multi-WAN failover, 3GModem failover
   WRR based load balancing

- Policy routing based on Application and User
   IP Address Assignment Static, PPPoE, L2TP, PPTP & DDNS Client, Proxy ARP, DHCP server, DHCP relay
- Support for HTTP Proxy
   Dynamic Routing: RIP v1& v2, OSPF, BGP, Multicast Forwarding
- Parent Proxy support with FQDN "IPv6 Ready" Gold Logo

- **High Availability** -Active-Active
- -Active-Passive with State Synchronization Stateful failover
- -Alerts on appliance status change

# Administration & System Management - Web-based configuration wizard

- Role-based access control Firmware Upgrades via Web UI Web 2.0 compliant UI (HTTPS)
- UI Color Styler Command Line Interface (Serial, SSH, Telnet) -SNMP (v1, v2c, v3)
- SNIMP (V1, V2C, V3)
   Multi-lingual support: Chinese, Hindi, French, Korean
   Cyberoam Central Console (Optional)
- NTP Support

### **User Authentication**

- Internal database
- -Active Directory Integration
  -Automatic Windows Single Sign On
  -External LDAP/RADIUS database integration
- Thin Client support Microsoft Windows Server 2003 Terminal Services and Citrix XenApp
- -RSA securID support
- External Authentication Users and Administrators User/MAC Binding Multiple Authentication servers

- **Logging/Monitoring** Graphical real-time and historical monitoring
- Email notification of reports, viruses and attacks
- Syslog support Log Viewer IPS, Web filter, Anti Virus, Anti Spam, Authentication, System and Admin Events

- On-Appliance Cyberoam-iView Reporting Integrated Web-based Reporting tool -
- Cyberoam-iView
   1000+ drilldown reports
   45+ Compliance Reports
- Historical and Real-time reports Multiple Dashboards
- Username, Host, Email ID specific Monitoring Dashboard
- Reports Security, Virus, Spam, Traffic, Policy violations, VPN, Search Engine keywords Multi-format reports tabular, graphical
- Exportable formats PDF, Excel Automated Report Scheduling

- IPSec VPN Client\*\*\*
   Inter-operability with major IPSec VPN Gateways
   Supported platforms: Windows 2000, WinXP 32/64-bit, Windows 2003 32-bit, Windows 2008 32/64-bit, Windows Vista 32/64-bit, Windows 7 RC1 32/64-bit
- Import Connection configuration

### Certification

- ICSA Firewall Corporate Checkmark UTM Level 5 Certification
- VPNC Basic and AES interoperability "IPv6 Ready" Gold Logo

# Compliance

CF FCC

**Dimensions** HxWxD (inches) 1.72 x 17.44 x 15.98 HxWxD(cms) 4.4 x 44.3 x 40.6 Weight 6.04 kg, 13.31 lbs

> 100-240 VAC 185W

10 to 90%

475 Yes

# Input Voltage Consumption Total Heat Dissipation (BTU) Redundant Power Supply

Environmental Operating Temperature Storage Temperature 5 to 40 °C 0 to 70 °C

Relative Humidity (Non condensing)

- \*If Enabled, will bypass traffic only in case of power failure. \*Subscription available in all the Models of CR50ia & above. For further details refer to WAF Datasheet.
- \*\*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.
- \*\*\*Additional Purchase Required. \*3G card and modern details are not included. See http://www.cyberoam.com for supported USB devices.

