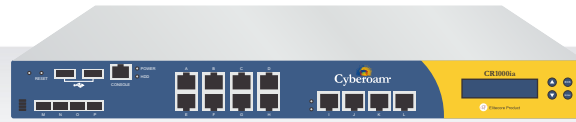




Unified Threat Management

## Cyberoam CR1000ia

## Powerful Unified Threat Management Appliances for Large Enterprises



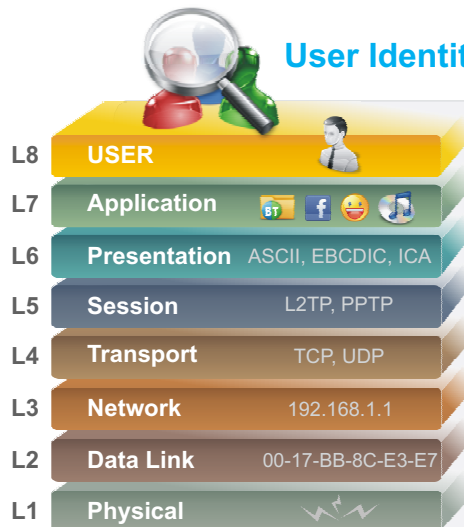
Cyberoam Unified Threat Management appliances offer assured security, connectivity and productivity to large enterprises by allowing user identity-based policy controls.

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.

*The only UTM to be ICSA-certified for its High Availability criteria and to have "IPv6 Ready" Gold logo*

## User Identity-based Security Policy Controls



**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

- VPN
- 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

## Interfaces

Copper GbE Ports	12
Configurable Internal/DMZ/WAN Ports	Yes
Console Ports (RJ45/DB9)	1
SFP (Mini GBIC) Ports	4
USB Ports	2
Hardware Bypass Segments	2*

## System Performance\*\*

Firewall throughput (UDP) (Mbps)	10,000
Firewall throughput (TCP) (Mbps)	8,000
New sessions/second	85,000
Concurrent sessions	1,500,000
168-bit 3DES/AES throughput (Mbps)	900/1,200
WAF Protected Throughput (Mbps)	425
Anti-Virus throughput (Mbps)	2,250
IPS throughput (Mbps)	2,500
UTM throughput (Mbps)	1,450

## 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: 100

## 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

## 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)
- 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

CE  
FCC

## Dimensions

H x W x D (inches)	1.77 x 17.25 x 18.30
H x W x D (cms)	4.5 x 43.8 x 46.5
Weight	13.5 kg, 29.76 lbs

## Power

Input Voltage	90-260 VAC
Consumption	129 W
Total Heat Dissipation (BTU)	626
Redundant Power Supply	Yes

## Environmental

Operating Temperature	0 to 40 °C
Storage Temperature	-20 to 80 °C
Relative Humidity (Non condensing)	10 to 90%

\*If Enabled, will bypass traffic only in case of power failure. \*\*Subscription available in all the Models of CR501a & 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 modem details are not included. See <http://www.cyberoam.com> for supported USB devices.

## Toll Free Numbers

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