



Cyberoam CR1500i

Comprehensive Network Security for Large Enterprises

Cyberoam CR1500i is an identity-based security appliance that delivers real-time network protection against evolving Internet threats to large enterprises through unique user based policies.

Cyberoam CR1500i delivers comprehensive protection to large enterprises from blended threats like malware, spam, phishing, and pharming attacks. Cyberoam's unique identity-based security protects users from internal threats that lead to data theft and loss. CR1500i delivers such comprehensive protection with Stateful Inspection Firewall, VPN, Gateway Anti-Virus and Anti-Spyware, Gateway Anti-Spam, Intrusion Detection and Prevention, Content Filtering, Bandwidth Management, Multiple Link Management, Comprehensive Reporting over a single platform and can be centrally managed using the Cyberoam Central Console. Integrated high availability provides protection against hardware failure to maximize network uptime and ensure

Identity-based Security in UTM

Cyberoam attaches the user identity to security, taking enterprises a step ahead of conventional solutions that bind security to IP-addresses. Cyberoam's identity-based security offers full business flexibility while ensuring complete security in any environment, including DHCP and Wi-Fi, by identifying individual users within the network-whether they are victims or attackers.



Features	Description	Benefits
Stateful Inspection Firewall (ICSA Labs Certified)	<ul style="list-style-type: none"> Powerful stateful and deep packet inspection Prevents DoS and flooding attacks from internal and external sources Identity-based access control for applications like P2P, IM 	<ul style="list-style-type: none"> Application layer protection Flexibility to set policies by user identity High scalability
Virtual Private Network	<ul style="list-style-type: none"> Industry standard: IPSec, L2TP, PPTP VPN VPN High Availability for IPSec and L2TP connections Dual VPNC Certifications - Basic and AES Interop 	<ul style="list-style-type: none"> Secure connectivity to branch offices and remote users Low cost remote connectivity over the Internet Effective failover management with defined connection priorities
Gateway Anti-Virus & Anti-Spyware	<ul style="list-style-type: none"> Scans HTTP, FTP, IMAP, POP3 and SMTP traffic Detects and removes viruses, worms and Trojans Access to quarantined mails to key executives Restriction on file transfer based on keywords Instant user identification in case of HTTP threats 	<ul style="list-style-type: none"> Complete protection of traffic over all protocols High business flexibility Protection of confidential information Real-time security
Gateway Anti-Spam	<ul style="list-style-type: none"> Scans SMTP, POP3 and IMAP traffic for spam Detects, tags and quarantines spam mail Lenient and strict policies based on user need Enforces black and white lists Virus Outbreak Protection Content-agnostic spam protection including Image-spam using Recurrent Pattern Detection (RPD™) Technology 	<ul style="list-style-type: none"> Enhances productivity High business flexibility Protection from emerging threats High scalability Zero hour protection incase of virus outbreaks Multi-language and Multi-format spam detection
Intrusion Detection & Prevention - IDP	<ul style="list-style-type: none"> Database of over 3000 signatures Multi-policy capability with policies based on signature, source and destination Internal user identification Detect and prevent intrusion using custom signatures Prevents intrusion attempts, DoS attacks, malicious code, backdoor activity and network-based blended threats Blocks anonymous proxies with HTTP proxy signatures Blocks "phone home" activities 	<ul style="list-style-type: none"> Low false positives Real-time Security in dynamic environments like DHCP and Wi-Fi Offers instant user-identification in case of internal threats Apply IDP policies on users
Content & Application Filtering	<ul style="list-style-type: none"> Automated web categorization engine blocks non-work sites based on millions of sites in over 68 categories URL Filtering for HTTP & HTTPS protocols Hierarchy, department, group, user-based filtering policies Time-based access to pre-defined sites Prevents downloads of streaming media, gaming, tickers, ads Supports CIPA compliance for schools and libraries 	<ul style="list-style-type: none"> Prevents exposure of network to external threats Blocks access to restricted websites Ensures regulatory compliance Saves bandwidth and enhances productivity Protects against legal liability Ensures the safety and security of minors online Enables schools to qualify for E-rate funding
Bandwidth Management	<ul style="list-style-type: none"> Committed and burstable bandwidth by hierarchy, departments, groups & users 	<ul style="list-style-type: none"> Prevents bandwidth congestion Prioritizes bandwidth for critical applications
Multiple Link Management	<ul style="list-style-type: none"> Security over multiple ISP links using a single appliance Load balances traffic based on weighted round robin distribution Link Failover automatically shifts traffic from a failed link to a working link 	<ul style="list-style-type: none"> Easy to manage security over multiple links Controls bandwidth congestion Optimal use of low-cost links Ensures business continuity
On-Appliance Reporting	<ul style="list-style-type: none"> Complete Reporting Suite available on the Appliance Traffic discovery offers real-time reports Reporting by username 	<ul style="list-style-type: none"> Reduced TCO as no additional purchase required Instant and complete visibility into patterns of usage Instant identification of victims and attackers in internal network

Interfaces					
10/100/1000 GBE Ports		10			
Configurable Internal/DMZ/WAN Ports		Yes			
Console Ports (RJ45)		1			
SFP (Mini GBIC) Ports		2			
USB ports		2			
System Performance					
Concurrent sessions		1,000,000			
New sessions/second		40,000			
Firewall throughput (Mbps)		6Gbps			
168-bit Triple-DES/AES throughput (Mbps)		600/750			
Antivirus throughput (Mbps)		800			
IDP throughput (Mbps)		2500			
UTM throughput (Mbps)		600			
Stateful Inspection Firewall					
Multiple Zones security with separate levels of access rule enforcement for each zone	Yes				
Rules based on the combination of User, Source & Destination Zone and IP address and Service	Yes				
Actions include policy based control for IDP, Content Filtering, Anti virus, Anti spam and Bandwidth Management	Yes				
Access Scheduling	Yes				
Policy based Source & Destination NAT	Yes				
H.323 NAT Traversal	Yes				
802.1q VLAN Support	Yes				
DoS Attack prevention	Yes				
Gateway Anti-Virus & Anti-Spyware					
Virus, Worm, Trojan Detection & Removal	Yes				
Spyware, Malware, Phishing protection	Yes				
Automatic virus signature database update	Yes				
Scans HTTP, FTP, SMTP, POP3, IMAP	Yes				
Customize individual user scanning	Yes				
Self Service Quarantine area	Yes				
Scan and deliver by file size	Yes				
Block by file types	Yes				
Add disclaimer/signature	Yes				
Gateway Anti-Spam					
Real-time Blacklist (RBL), MIME header check	Yes				
Filter based on message header, size, sender, recipient	Yes				
Subject line tagging	Yes				
IP address blacklist/exempt list	Yes				
Redirect spam mails to dedicated email address	Yes				
Image-based spam filtering using RPD Technology	Yes				
Zero hour Virus Outbreak Protection	Yes				
Self Service Quarantine area	Yes				
Dynamic Intrusion Detection & Prevention					
Signatures: Default (3000+), Custom	Yes				
IDP Policies: Multiple, Custom	Yes				
User-based policy creation	Yes				
Automatic real-time updates from CRProtect networks	Yes				
Protocol Anomaly Detection	Yes				
Block HTTP Proxy traffic	Yes				
P2P applications signatures including Skype	Yes				
Content & Application Filtering					
Inbuilt Web Category Database	Yes				
URL, keyword, File type block	Yes				
Categories: Default(68+), Custom	Yes				
HTTP Upload block	Yes				
Protocols supported: HTTP, HTTPS	Yes				
Block Malware, Phishing, Pharming URLs	Yes				
Custom block messages per category	Yes				
Block Java Applets, Cookies, Active X	Yes				
CIPA Compliant	Yes				
Vitrual Private Network - VPN					
IPSec, L2TP, PPTP	Yes				
Encryption - 3DES, DES, AES, Twofish, Blowfish, Serpent	Yes				
Hash Algorithms - MD5, SHA-1	Yes				
Authentication - Preshared key, Digital certificates	Yes				
IPSec NAT Traversal	Yes				
Dead peer detection and PFS support	Yes				
Diffie Hellman Groups - 1,2,5,14,15,16	Yes				
External Certificate Authority support	Yes				
Export Road Warrior connection configuration	Yes				
Domain name support for tunnel end points	Yes				
VPN connection redundancy	Yes				
Bandwidth Management					
Application and User Identity based Bandwidth Management	Yes				
Guaranteed & Burstable bandwidth policy	Yes				
Application & User Identity based Traffic Discovery	Yes				
Multi WAN bandwidth reporting	Yes				
User Identity and Group Based Controls					
Access time restriction	Yes				
Time Quota restriction	Yes				
Schedule based Committed and Burstable Bandwidth	Yes				
Data Quota restriction	Yes				
Schedule based P2P and IM Controls	Yes				
Networking					
Multiple Link Auto Failover	Yes				
WRR based Load balancing	Yes				
Policy routing based on Application and User	Yes				
DDNS/PPPoE Client	Yes				
Support for TCP MSS configuration	Yes				
Support for HTTP Proxy Mode Deployment	Yes				
Parent proxy support	Yes				
Dynamic Routing: RIP v1& v2, OSPF, BGP	Yes				
Multicast Forwarding	Yes				
High Availability					
Active-Passive with state synchronization	Yes				
Stateful Failover	Yes				
Alert on Appliance Status change	Yes				
Administration					
Web-based configuration wizard	Yes				
Role-based administration	Yes				
Multiple administrators and user levels	Yes				
Upgrades & changes via Web UI	Yes				
System Management					
Console interface	Yes				
Web UI (HTTPS)	Yes				
Command line interface	Yes				
Secure Command Shell (SSH)	Yes				
SNMP (v1, v2c, v3)	Yes				
Cyberoam Central Console	Yes				
User Authentication					
Local database	Yes				
Windows Domain Control & Active Directory Integration	Yes				
Automatic Windows Single Sign On	Yes				
External LDAP/RADIUS database Integration	Yes				
Logging/Monitoring					
Internal HDD	Yes				
Graphical real-time and historical monitoring	Yes				
Email notification of reports, viruses and attacks	Yes				
Syslog support	Yes				
On-Appliance Reporting					
Intrusion events reports	Yes				
Policy violations reports	Yes				
Web Category reports (user, content type)	Yes				
Search Engine Keywords reporting	Yes				
Data transfer reporting (By Host, Group & IP Address)	Yes				
Virus reporting by User and IP Address	Yes				
Compliance Reports	45+				
VPN Client					
IPSec compliant	Yes				
Inter-operability with major IPSec VPN Gateways	Yes				
Supported platforms: Windows 98, Me, NT4, 2000, XP, Vista	Yes				
Import Connection configuration	Yes				
Certification					
ICSA Firewall - Corporate	Yes				
VPNC - Basic and AES interoperability	Yes				
Checkmark UTM Level 5 Certification	Yes				
Compliance					
CE	Yes				
FCC	Yes				
Dimensions					
Height	3.46 inches				
Width	16.7 inches				
Depth	20.9 inches				
Power					
Input Voltage	90-264 VAC, 210W				
Redundant Power Supply	Yes				
Environmental					
Operating Temperature	0 to 40 °C				
Storage Temperature	-20 to 80 °C				
Relative Humidity (Non condensing)	10 to 90%				
Cooling System - Fans	7				



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