



Cyberoam CR100i

Comprehensive Network Security for Small and Medium Enterprises

Cyberoam CR100i is an identity-based security appliance that delivers real-time network protection against evolving Internet threats to small and medium enterprises (SMEs) through unique user based policies.

SMEs face same amount of risk as large enterprises from Internet attacks but have limited technical resources to manage security solutions. Cyberoam protection is comprehensive, yet cost-effective and easy-to-manage. CR100i appliances deliver comprehensive protection to SMEs with Stateful Inspection Firewall, VPN, Gateway Anti-Virus and Anti-Spyware, Gateway Anti-Spam, Intrusion Prevention System, Content Filtering, Bandwidth Management, Multiple Link Management, Comprehensive Reporting over a single platform and can be centrally managed using Cyberoam Central Console. Integrated high availability provides protection against hardware failure to maximize network uptime and ensure uninterrupted access.

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 Fusion technology blends all the components of Cyberoam into a single firewall policy Prevents DoS & flooding attacks from internal & external sources Identity-based access control for applications like P2P, IM 	<ul style="list-style-type: none"> Application layer protection Provides the right balance of security, connectivity and productivity Flexibility to set policies by user identity High scalability
Virtual Private Network	<ul style="list-style-type: none"> Threat Free Tunneling 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"> Safe and clean VPN traffic 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 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 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 Prevention System - IPS	<ul style="list-style-type: none"> Database of over 3000 signatures Multi-policy capability with policies based on default & custom signatures, source and destination 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 IPS 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 82+ 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

Specification

Interfaces					
10/100 Ethernet Ports		4			
10/100/1000 GBE Ports		-			
Configurable Internal/DMZ/WAN Ports		Yes			
Console Ports (RJ45)		1			
SFP (Mini GBIC) Ports		-			
USB ports		2			
System Performance					
Concurrent sessions		370,000			
New sessions/second		4,500			
Firewall throughput (Mbps)		200			
168-bit Triple-DES/AES throughput (Mbps)		80/100			
Antivirus throughput (Mbps)		150			
IPS throughput (Mbps)		160			
UTM throughput (Mbps)		100			
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 IPS, 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, VPN Tunnels		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			
Intrusion Prevention System					
Signatures: Default (3000+), Custom		Yes			
IPS Policies: Multiple, Custom		Yes			
User-based policy creation		Yes			
Automatic real-time updates from CRProtect networks		Yes			
Protocol Anomaly Detection		Yes			
P2P applications signatures including Skype		Yes			
Content & Application Filtering					
Inbuilt Web Category Database		Yes			
URL, keyword, File type block		Yes			
Categories: Default(82+), 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			
Virtual 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-Active		Yes			
Active-Passive with state synchronization		Yes			
Stateful Failover		Yes			
Alert on Appliance Status change		Yes			
Administration & System Management					
Web-based configuration wizard		Yes			
Role-based administration		Yes			
Multiple administrators and user levels		Yes			
Upgrades & changes via Web UI		Yes			
Muti-lingual support: Chinese, Hindi		Yes			
Web UI (HTTPS)		Yes			
Command line interface (Serial, SSH, Telnet)		Yes			
SNMP (v1, v2c, v3)		Yes			
Cyberoam Central Console		Yes			
Version Rollback		Yes			
NTP Server Support		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			
User/MAC Binding		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					
H x W x D (inches)		1.72 x 16.8 x 9.1			
H x W x D (cms)		4.4 x 42.7 x 23.5			
Weight		4 kg, 8.82 lbs			
Power					
Input Voltage		110-240 VAC			
Consumption		30W			
Total Heat Dissipation (BTU)		102.6			
Environmental					
Operating Temperature		0 to 40 °C			
Storage Temperature		-20 to 80 °C			
Relative Humidity (Non condensing)		10 to 90%			
Cooling System - Fans		4			



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