



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 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 Prevention System - IPS	<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 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		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-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			
Web UI (HTTPS)		Yes	
Command line interface (Serial, SSH, Telnet)		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	
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			
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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