



Cyberoam CR15i

Cyberoam CR15i is an identity-based security appliance that delivers real-time network protection against evolving Internet threats to Small Office-Home Office (SOHO) and Remote Office Branch Office (ROBO) users.

Small and remote offices implementing limited security like a firewall and anti-virus leave themselves exposed to the high volume and range of external and internal threats. Cyberoam CR15i delivers comprehensive protection to small, remote and branch office users from threats like malware, virus, spam, phishing, and pharming attacks. Cyberoam's unique identity-based security protects users from internal threats that lead to data theft and loss. Cyberoam appliances deliver such comprehensive protection with Stateful Inspection Firewall, VPN, Gateway Anti-Virus and Anti-Spyware, Gateway Anti-Spam, Intrusion Prevention System, Content Filtering, Bandwidth Management, Multiple Link Management and can be centrally managed using the Cyberoam Central Console.

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 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"> 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 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			User Identity and Group Based Controls	
10/100 Ethernet Ports	3		Access time restriction	Yes
10/100/1000 GBE Ports	-		Time Quota restriction	Yes
Configurable Internal/DMZ/WAN Ports	Yes		Schedule based Committed and Burstable Bandwidth	Yes
Serial Ports	1		Data Quota restriction	Yes
SFP (Mini GBIC) Ports	-		Schedule based P2P and IM Controls	Yes
USB ports	1			
System Performance*			Networking	
Concurrent sessions	30,000		Multiple Link Auto Failover	Yes
New sessions/second	2,000		WRR based Load balancing	Yes
Firewall throughput (Mbps)	90		Policy routing based on Application and User	Yes
168-bit Triple-DES/AES throughput (Mbps)	15/25		DDNS/PPPoE Client	Yes
Antivirus throughput (Mbps)	20		Support for HTTP Proxy Mode Deployment	Yes
IPS throughput (Mbps)	40		Parent proxy support	Yes
UTM throughput (Mbps)	15		Dynamic Routing: RIP v1& v2, OSPF, BGP	Yes
			Multicast Forwarding	Yes
Stateful Inspection Firewall			Administration & System Management	
Multiple Zones security with separate levels of access rule enforcement for each zone	Yes		Web-based configuration wizard	Yes
Rules based on the combination of User, Source & Destination Zone and IP address and Service	Yes		Role-based administration	Yes
Actions include policy based control for IPS, Content Filtering, Anti virus, Anti spam and Bandwidth Management	Yes		Multiple administrators and user levels	Yes
Access Scheduling	Yes		Upgrades & changes via Web UI	Yes
Policy based Source & Destination NAT	Yes		Multilingual support: Chinese, Hindi	Yes
H.323 NAT Traversal	Yes		Web UI (HTTPS)	Yes
802.1q VLAN Support	Yes		Command line interface (Serial, SSH, Telnet)	Yes
DoS Attack prevention	Yes		SNMP (v1, v2c, v3)	Yes
			Cyberoam Central Console	Yes
			NTP Server Support	Yes
Gateway Anti-Virus & Anti-Spyware			User Authentication	
Virus, Worm, Trojan Detection & Removal	Yes		Local database	Yes
Spyware, Malware, Phishing protection	Yes		Windows Domain Control & Active Directory Integration	Yes
Automatic virus signature database update	Yes		Automatic Windows Single Sign On	Yes
Scans HTTP, FTP, SMTP, POP3, IMAP, VPN Tunnels	Yes		External LDAP/RADIUS database Integration	Yes
Customize individual user scanning	Yes		User/MAC Binding	Yes
Scan and deliver by file size	Yes			
Block by file types	Yes		Logging/Monitoring	
Add disclaimer/signature	Yes		Graphical real-time and historical monitoring	Yes
			Email notification of reports, viruses and attacks	Yes
			Syslog support	Yes
Gateway Anti-Spam			On-Appliance Reporting#	
Real-time Blacklist (RBL), MIME header check	Yes		Intrusion events reports	Yes
Filter based on message header, size, sender, recipient	Yes		Policy violations reports	Yes
Subject line tagging	Yes		Web Category reports (user, content type)	Yes
IP address blacklist/exempt list	Yes		Search Engine Keywords reporting	Yes
Redirect spam mails to dedicated email address	Yes		Data transfer reporting (By Host, Group & IP Address)	Yes
Image-based spam filtering using RPD Technology	Yes		Virus reporting by User and IP Address	Yes
Zero hour Virus Outbreak Protection	Yes		Compliance Reports	45+
Intrusion Prevention System			VPN Client	
Signatures: Default, Custom	Yes		IPSec compliant	Yes
IPS Policies: Multiple, Custom	Yes		Inter-operability with major IPSec VPN Gateways	Yes
User-based policy creation	Yes		Supported platforms: Windows 98, Me, NT4, 2000, XP, Vista	Yes
Automatic real-time updates from CRProtect networks	Yes		Import Connection configuration	Yes
Protocol Anomaly Detection	Yes			
P2P applications signatures	Yes		Certification	
			ICSA Firewall - Corporate	Yes
Content & Application Filtering			VPNC - Basic and AES interoperability	Yes
Inbuilt Web Category Database	Yes		Checkmark UTM Level 5 Certification	Yes
URL, keyword, File type block	Yes			
Categories: Default(82+), Custom	Yes		Compliance	
HTTP Upload block	Yes		CE	Yes
Protocols supported: HTTP, HTTPS	Yes		FCC	Yes
Block Malware, Phishing, Pharming URLs	Yes			
Custom block messages per category	Yes		Dimensions	
Block Java Applets, Cookies, Active X	Yes		H x W x D (inches)	1.7 x 6 x 9.1
CIPA Compliant	Yes		H x W x D (cms)	4.4 x 15.3 x 23.2
			Weight	1.5 kg, 3.307 lbs
Virtual Private Network			Power	
IPSec, L2TP, PPTP	Yes		Input Voltage	100-240VAC
Encryption - 3DES, DES, AES, Twofish, Blowfish, Serpent	Yes		Consumption	13.2W
Hash Algorithms - MD5, SHA-1	Yes		Total Heat Dissipation (BTU)	45
Authentication - Preshared key, Digital certificates	Yes			
IPSec NAT Traversal	Yes		Environmental	
Dead peer detection and PFS support	Yes		Operating Temperature	0 to 40 °C
Diffie Hellman Groups - 1,2,5,14,15,16	Yes		Storage Temperature	-20 to 75 °C
External Certificate Authority support	Yes		Relative Humidity (Non condensing)	10 to 95%
Export Road Warrior connection configuration	Yes		Cooling System - Fan	Fanless
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			
Multi WAN bandwidth reporting	Yes			

*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.

#Only for the previous day

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