



Cyberoam CR35ia

Comprehensive Network Security for Small and Medium Offices



Cyberoam UTM

Cyberoam CR35ia 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.

CR35ia delivers comprehensive protection from malware, virus, spam, phishing, pharming and more. Its unique identity-based security protects users from internal threats that lead to data leakage. Cyberoam features include Stateful Inspection Firewall, VPN (SSL & IPSec), Gateway Anti-Virus and Anti-Spyware, Gateway Anti-Spam, IPS, Content Filtering, Bandwidth Management, Multiple Link Management and can be centrally managed with 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, SSL, 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 Spam Notification through Digest IP Reputation-based Spam filtering 	<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 Category-based Bandwidth restriction 	<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	-		Granular access control to all the Enterprise Network resources
10/100/1000 GBE Ports	4		Administrative controls - Session timeout, Dead Peer Detection, Portal customization
Configurable Internal/DMZ/WAN Ports	Yes		
Console Ports (RJ45/DB9)	1		Bandwidth Management
USB Ports	1		Application and User Identity based Bandwidth Management
Hardware Bypass Segments	-		Guaranteed & Burstable bandwidth policy
			Application & User Identity based Traffic Discovery
			Multi WAN bandwidth reporting
			Category-based Bandwidth restriction
System Performance*			
Firewall throughput (Mbps)	500		User Identity and Group Based Controls
New sessions/second	5,500		Access time restriction
Concurrent sessions	175,000		Time and Data Quota restriction
168-bit Triple-DES/AES throughput (Mbps)	50/80		Schedule based Committed and Burstable Bandwidth
Antivirus throughput (Mbps)	125		Schedule based P2P and IM Controls
IPS throughput (Mbps)	150		
UTM throughput (Mbps)	90		
Stateful Inspection Firewall			
Multiple Zones security with separate levels of access rule enforcement for each zone	Yes		Networking
Rules based on the combination of User, MAC, Source & Destination Zone and IP address and Service	Yes		Multiple Link Auto Failover
Actions include policy based control for IPS, Content Filtering, Anti virus, Anti spam and Bandwidth Management	Yes		WRR based Load balancing
Access Scheduling	Yes		Policy routing based on Application and User
Policy based Source & Destination NAT	Yes		DDNS/PPPoE Client
H.323 NAT Traversal	Yes		Support for HTTP Proxy
802.1q VLAN Support	Yes		Dynamic Routing: RIP v1& v2, OSPF, BGP, Multicast Forwarding
DoS & DDoS Attack prevention	Yes		Parent Proxy support with FQDN
MAC & IP-MAC filtering and Spoof prevention	Yes		DHCP Server and Relay
Gateway Anti-Virus & Anti-Spyware			
Virus, Worm, Trojan Detection & Removal	Yes		High Availability
Spyware, Malware, Phishing protection	Yes		Active-Active
Automatic virus signature database update	Yes		Active-Passive with state synchronization
Scans HTTP, FTP, SMTP, POP3, IMAP, VPN Tunnels	Yes		Stateful Failover
Customize individual user scanning	Yes		Alert on Appliance Status change
Self Service Quarantine area	Yes		
Scan and deliver by file size	Yes		Administration & System Management
Block by file types	Yes		Web-based configuration wizard
Add disclaimer/signature	Yes		Role-based administration
			Multiple administrators and user levels
			Upgrades & changes via Web UI
			Multi-lingual support: Chinese, Hindi, French
			Web UI (HTTPS)
			Command line interface (Serial, SSH, Telnet)
			SNMP (v1, v2c, v3)
			Cyberoam Central Console
			Version Rollback
			NTP Server Support
Gateway Anti-Spam			User Authentication
Real-time Blacklist (RBL), MIME header check	Yes		Local database
Filter based on message header, size, sender, recipient	Yes		Windows Domain Control & Active Directory Integration
Subject line tagging	Yes		Automatic Windows Single Sign On
IP address Black list/White list	Yes		External LDAP/RADIUS database Integration
Redirect spam mails to dedicated email address	Yes		User/MAC Binding
Image-based spam filtering using RPD Technology	Yes		
Zero hour Virus Outbreak Protection	Yes		Logging/Monitoring
Self Service Quarantine area	Yes		Internal HDD
Spam Notification through Digest	Yes		Graphical real-time and historical monitoring
IP Reputation-based Spam filtering	Yes		Email notification of reports, viruses and attacks
			Syslog support
Intrusion Prevention System			On-Appliance Reporting
Signatures: Default (3000+), Custom	Yes		Intrusion events reports
IPS Policies: Multiple, Custom	Yes		Policy violations reports
User-based policy creation	Yes		Web Category reports (user, content type)
Automatic real-time updates from CRProtect networks	Yes		Search Engine Keywords reporting
Protocol Anomaly Detection	Yes		Data transfer reporting (By Host, Group & IP Address)
Block			Virus reporting by User and IP Address
- P2P applications e.g. Skype	Yes		Compliance Reports
- Anonymous proxies e.g. Ultra surf	Yes		
- "Phone home" activities	Yes		VPN Client
- Keylogger	Yes		IPSec compliant
			Inter-operability with major IPSec VPN Gateways
			Supported platforms: Windows 98, Me, NT4, 2000, XP, Vista
			Import Connection configuration
Content & Application Filtering			Certification
Inbuilt Web Category Database	Yes		ICSA Firewall - Corporate
URL, keyword, File type block	Yes		VPNC - Basic and AES interoperability
Categories: Default(82+), Custom	Yes		Checkmark UTM Level 5 Certification
Protocols supported: HTTP, HTTPS	Yes		
Block Malware, Phishing, Pharming URLs	Yes		Compliance
Custom block messages per category	Yes		CE
Block Java Applets, Cookies, Active X	Yes		FCC
CIPA Compliant	Yes		
Data leakage control via HTTP upload	Yes		Dimensions
			H x W x D (inches)
			H x W x D (cms)
			Appliance Weight
Virtual Private Network - VPN			Power
IPSec, L2TP, PPTP	Yes		Input Voltage
Encryption - 3DES, DES, AES, Twofish, Blowfish, Serpent	Yes		Consumption
Hash Algorithms - MD5, SHA-1	Yes		Total Heat Dissipation (BTU)
Authentication - Preshared key, Digital certificates	Yes		
IPSec NAT Traversal	Yes		Environmental
Dead peer detection and PFS support	Yes		Operating Temperature
Diffie Hellman Groups - 1,2,5,14,15,16	Yes		Storage Temperature
External Certificate Authority support	Yes		Relative Humidity (Non condensing)
Export Road Warrior connection configuration	Yes		Cooling System -Fans
Domain name support for tunnel end points	Yes		
VPN connection redundancy	Yes		
Overlapping Network support	Yes		
Hub & Spoke VPN support	Yes		
SSL VPN			
TCP & UDP Tunneling	Yes		
Authentication - Active Directory, LDAP, RADIUS, Cyberoam	Yes		
Multi-layered Client Authentication - Certificate, Username/Password	Yes		
User & Group policy enforcement	Yes		
Network access - Split and Full tunneling	Yes		
Browser-based (Portal) Access - Clientless access	Yes		
Lightweight SSL VPN Tunneling Client	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.

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