



## Cyberoam CR15i

### Comprehensive Network Security for Small and Remote Offices



### Cyberoam UTM

Cyberoam CR15i is the identity-based security appliance that works on Layer 8, delivering real-time protection against evolving external and internal threats to Small Office-Home Office (SOHO) and Remote Office-Branch Office (ROBO) users.

Small, remote offices with limited security like firewall, anti-virus are exposed to Internet threats. Cyberoam 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 (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
<b>Stateful Inspection Firewall (ICSA Labs Certified)</b>	<ul style="list-style-type: none"> <li>Powerful stateful and deep packet inspection</li> <li>Fusion technology blends all the components of Cyberoam into a single firewall policy</li> <li>Prevents DoS &amp; flooding attacks from internal &amp; external sources</li> <li>Identity-based access control for applications like P2P, IM</li> </ul>	<ul style="list-style-type: none"> <li>Application layer protection</li> <li>Provides the right balance of security, connectivity and productivity</li> <li>Flexibility to set policies by user identity</li> <li>High scalability</li> </ul>
<b>Virtual Private Network</b>	<ul style="list-style-type: none"> <li>Threat Free Tunneling</li> <li>Industry standard: IPSec, L2TP, PPTP VPN</li> <li>VPN High Availability for IPSec and L2TP connections</li> <li>Dual VPN Certifications - Basic and AES Interop</li> </ul>	<ul style="list-style-type: none"> <li>Safe and clean VPN traffic</li> <li>Secure connectivity to branch offices and remote users</li> <li>Low cost remote connectivity over the Internet</li> <li>Effective failover management with defined connection priorities</li> </ul>
<b>Gateway Anti-Virus &amp; Anti-Spyware</b>	<ul style="list-style-type: none"> <li>Scans HTTP, FTP, IMAP, POP3 and SMTP traffic</li> <li>Detects and removes viruses, worms and Trojans</li> <li>Instant user identification in case of HTTP threats</li> </ul>	<ul style="list-style-type: none"> <li>Complete protection of traffic over all protocols</li> <li>High business flexibility</li> <li>Protection of confidential information</li> <li>Real-time security</li> </ul>
<b>Gateway Anti-Spam</b>	<ul style="list-style-type: none"> <li>Scans SMTP, POP3 and IMAP traffic for spam</li> <li>Detects, tags and quarantines spam mail</li> <li>Enforces black and white lists</li> <li>Virus Outbreak Protection</li> <li>Content-agnostic spam protection including Image-spam using Recurrent Pattern Detection (RPD™) Technology</li> <li>IP Reputation-based Spam filtering</li> </ul>	<ul style="list-style-type: none"> <li>Enhances productivity</li> <li>High business flexibility</li> <li>Protection from emerging threats</li> <li>High scalability</li> <li>Zero hour protection incase of virus outbreaks</li> <li>Multi-language and Multi-format spam detection</li> </ul>
<b>Intrusion Prevention System - IPS</b>	<ul style="list-style-type: none"> <li>Multi-policy capability with policies based on default &amp; custom signatures, source and destination</li> <li>Prevents intrusion attempts, DoS attacks, malicious code, backdoor activity and network-based blended threats</li> <li>Blocks anonymous proxies with HTTP proxy signatures</li> <li>Blocks "phone home" activities</li> </ul>	<ul style="list-style-type: none"> <li>Low false positives</li> <li>Real-time Security in dynamic environments like DHCP and Wi-Fi</li> <li>Offers instant user-identification in case of internal threats</li> <li>Apply IPS policies on users</li> </ul>
<b>Content &amp; Application Filtering</b>	<ul style="list-style-type: none"> <li>Automated web categorization engine blocks non-work sites based on millions of sites in over 82+ categories</li> <li>URL Filtering for HTTP &amp; HTTPS protocols</li> <li>Hierarchy, department, group, user-based filtering policies</li> <li>Time-based access to pre-defined sites</li> <li>Prevents downloads of streaming media, gaming, tickers, ads</li> <li>Supports CIPA compliance for schools and libraries</li> </ul>	<ul style="list-style-type: none"> <li>Prevents exposure of network to external threats</li> <li>Blocks access to restricted websites</li> <li>Ensures regulatory compliance</li> <li>Saves bandwidth and enhances productivity</li> <li>Protects against legal liability</li> <li>Ensures the safety and security of minors online</li> <li>Enables schools to qualify for E-rate funding</li> </ul>
<b>Bandwidth Management</b>	<ul style="list-style-type: none"> <li>Committed and burstable bandwidth by hierarchy, departments, groups &amp; users</li> <li>Category-based Bandwidth restriction</li> </ul>	<ul style="list-style-type: none"> <li>Prevents bandwidth congestion</li> <li>Prioritizes bandwidth for critical applications</li> </ul>
<b>Multiple Link Management</b>	<ul style="list-style-type: none"> <li>Security over multiple ISP links using a single appliance</li> <li>Load balances traffic based on weighted round robin distribution</li> <li>Link Failover automatically shifts traffic from a failed link to a working link</li> </ul>	<ul style="list-style-type: none"> <li>Easy to manage security over multiple links</li> <li>Controls bandwidth congestion</li> <li>Optimal use of low-cost links</li> <li>Ensures business continuity</li> </ul>
<b>On-Appliance Reporting</b>	<ul style="list-style-type: none"> <li>Complete Reporting Suite available on the Appliance</li> <li>Reporting by username</li> </ul>	<ul style="list-style-type: none"> <li>Reduced TCO as no additional purchase required</li> <li>Instant and complete visibility into patterns of usage</li> <li>Instant identification of victims and attackers in internal network</li> </ul>

# Specification

Interfaces			
10/100 Ethernet Ports	3	Bandwidth Management	
10/100/1000 GBE Ports	-	Application and User Identity based Bandwidth Management	Yes
Configurable Internal/DMZ/WAN Ports	Yes	Guaranteed & Burstable bandwidth policy	Yes
Console Ports (RJ45/DB9)	1	Multi WAN bandwidth reporting	Yes
SFP (Mini GBIC) Ports	-	Category-based Bandwidth restriction	Yes
USB Ports	1		
Hardware Bypass Segments	-	User Identity and Group Based Controls	
		Access time restriction	Yes
System Performance*		Time and Data Quota restriction	Yes
Firewall throughput (Mbps)	90	Schedule based Committed and Burstable Bandwidth	Yes
New sessions/second	2,000	Schedule based P2P and IM Controls	Yes
Concurrent sessions	30,000		
168-bit Triple-DES/AES throughput (Mbps)	15/25	Networking	
Antivirus throughput (Mbps)	20	Multiple Link Auto Failover	Yes
IPS throughput (Mbps)	40	WRR based Load balancing	Yes
UTM throughput (Mbps)	15	Policy routing based on Application and User	Yes
		DDNS/PPPoE Client	Yes
Stateful Inspection Firewall		Support for HTTP Proxy	Yes
Multiple Zones security with separate levels of access rule enforcement for each zone	Yes	Dynamic Routing: RIP v1& v2, OSPF, BGP, Multicast Forwarding	Yes
Rules based on the combination of User, MAC, Source & Destination Zone and IP address and Service	Yes	Parent Proxy support with FQDN	Yes
Actions include policy based control for IPS, Content Filtering, Anti virus, Anti spam and Bandwidth Management	Yes	DHCP Server and Relay	Yes
Access Scheduling	Yes		
Policy based Source & Destination NAT	Yes	Administration & System Management	
H.323 NAT Traversal	Yes	Web-based configuration wizard	Yes
802.1q VLAN Support	Yes	Role-based administration	Yes
DoS & DDos Attack prevention	Yes	Multiple administrators and user levels	Yes
MAC & IP-MAC filtering and Spoof prevention	Yes	Upgrades & changes via Web UI	Yes
		Multi-lingual support: Chinese, Hindi, French	Yes
Gateway Anti-Virus & Anti-Spyware		Web UI (HTTPS)	Yes
Virus, Worm, Trojan Detection & Removal	Yes	Command line interface (Serial, SSH, Telnet)	Yes
Spyware, Malware, Phishing protection	Yes	SNMP (v1, v2c, v3)	Yes
Automatic virus signature database update	Yes	Cyberoam Central Console	Yes
Scans HTTP, FTP, SMTP, POP3, IMAP, VPN Tunnels	Yes	NTP Server Support	Yes
Customize individual user scanning	Yes		
Scan and deliver by file size	Yes	User Authentication	
Block by file types	Yes	Local database	Yes
Add disclaimer/signature	Yes	Windows Domain Control & Active Directory Integration	Yes
		Automatic Windows Single Sign On	Yes
Gateway Anti-Spam		External LDAP/RADIUS database Integration	Yes
Real-time Blacklist (RBL), MIME header check	Yes	User/MAC Binding	Yes
Filter based on message header, size, sender, recipient	Yes		
Subject line tagging	Yes	Logging/Monitoring	
IP address Black list/White list	Yes	Graphical real-time and historical monitoring	Yes
Redirect spam mails to dedicated email address	Yes	Email notification of reports, viruses and attacks	Yes
Image-based spam filtering using RPD Technology	Yes	Syslog support	Yes
Zero hour Virus Outbreak Protection	Yes		
		On-Appliance Reporting#	
Intrusion Prevention System		Intrusion events reports	Yes
Signatures: Default, Custom	Yes	Policy violations reports	Yes
IPS Policies: Multiple, Custom	Yes	Web Category reports (user, content type)	Yes
User-based policy creation	Yes	Search Engine Keywords reporting	Yes
Automatic real-time updates from CRProtect networks	Yes	Data transfer reporting (By Host, Group & IP Address)	Yes
Protocol Anomaly Detection	Yes	Virus reporting by User and IP Address	Yes
Block		Compliance Reports	45+
- P2P applications e.g. Skype	Yes		
- Anonymous proxies e.g. Ultra surf	Yes	VPN Client	
- "Phone home" activities	Yes	IPSec compliant	Yes
- Keylogger	Yes	Inter-operability with major IPSec VPN Gateways	Yes
		Supported platforms: Windows 98, Me, NT4, 2000, XP, Vista	Yes
Content & Application Filtering		Import Connection configuration	Yes
Inbuilt Web Category Database	Yes		
URL, keyword, File type block	Yes	Certification	
Categories: Default(82+), Custom	Yes	ICSA Firewall - Corporate	Yes
Protocols supported: HTTP, HTTPS	Yes	VPNC - Basic and AES interoperability	Yes
Block Malware, Phishing, Pharming URLs	Yes	Checkmark UTM Level 5 Certification	Yes
Custom block messages per category	Yes		
Block Java Applets, Cookies, Active X	Yes	Compliance	
CIPA Compliant	Yes	CE	Yes
Data leakage control via HTTP upload	Yes	FCC	Yes
Virtual Private Network		Dimensions	
IPSec, L2TP, PPTP	Yes	H x W x D (inches)	1.7 x 6 x 9.1
Encryption - 3DES, DES, AES, Twofish, Blowfish, Serpent	Yes	H x W x D (cms)	4.4 x 15.3 x 23.2
Hash Algorithms - MD5, SHA-1	Yes	Weight	1.5 kg, 3.307 lbs
Authentication - Preshared key, Digital certificates	Yes		
IPSec NAT Traversal	Yes	Power	
Dead peer detection and PFS support	Yes	Input Voltage	100-240VAC
Diffie Hellman Groups - 1,2,5,14,15,16	Yes	Consumption	13.2W
External Certificate Authority support	Yes	Total Heat Dissipation (BTU)	45
Export Road Warrior connection configuration	Yes		
Domain name support for tunnel end points	Yes	Environmental	
VPN connection redundancy	Yes	Operating Temperature	0 to 40 °C
Overlapping Network support	Yes	Storage Temperature	-20 to 75 °C
Hub & Spoke VPN support	Yes	Relative Humidity (Non condensing)	10 to 95%
		Cooling System - Fan	Fanless

\*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

## Toll Free Numbers

**Thailand** : +66-2-331-6491, Fax: +66-2-331-648

**USA** : +1-877-777-0368 | **India** : 1-800-301-00013

**APAC/MEA** : +1-877-777-0368 | **Europe** : +44-808-120-3958

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