



Cyberoam CR100i

Comprehensive Network Security for Small and Medium Offices



Cyberoam UTM

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.

Small and medium enterprises 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 (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 | | 4 | |
| 10/100/1000 GBE Ports | | - | |
| Configurable Internal/DMZ/WAN Ports | | Yes | |
| Console Ports (RJ45/DB9) | | 1 | |
| SFP (Mini GBIC) Ports | | - | |
| USB ports | | 2 | |
| Hardware Bypass Segments | | - | |
| System Performance* | | | |
| Firewall throughput (Mbps) | | 200 | |
| New sessions/second | | 4,500 | |
| Concurrent sessions | | 370,000 | |
| 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, MAC, 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 & DDoS Attack prevention | Yes | | |
| MAC & IP-MAC filtering and Spoof 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 Black list/White 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 | | |
| Spam Notification through Digest | Yes | | |
| IP Reputation-based Spam filtering | 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 | | |
| Block | | | |
| - P2P applications e.g. Skype | Yes | | |
| - Anonymous proxies e.g. Ultra surf | Yes | | |
| - "Phone home" activities | Yes | | |
| - Keylogger | Yes | | |
| Content & Application Filtering | | | |
| Inbuilt Web Category Database | Yes | | |
| URL, keyword, File type block | Yes | | |
| Categories: Default(82+), Custom | 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 | | |
| Data leakage control via HTTP upload | 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 | | |
| 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 | | |
| Granular access control to all the Enterprise Network resources | Yes | | |
| Administrative controls - Session timeout, Dead Peer Detection, Portal customization | 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 | | |
| Category-based Bandwidth restriction | Yes | | |
| User Identity and Group Based Controls | | | |
| Access time restriction | Yes | | |
| Time and Data Quota restriction | Yes | | |
| Schedule based Committed and Burstable Bandwidth | 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 HTTP Proxy | Yes | | |
| Dynamic Routing: RIP v1&v2, OSPF, BGP, Multicast Forwarding | Yes | | |
| Parent Proxy support with FQDN | Yes | | |
| DHCP Server and Relay | 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 | | |
| Multi-lingual support: Chinese, Hindi, French | 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 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 | |

*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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