



Cyberoam UTM

Cyberoam CR series are identity-based integrated security appliances that offer real-time protection against blended threats through unique user identity-based policies.

Cyberoam appliances deliver enterprise class 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 the Cyberoam Central Console. Integrated high availability feature provides protection against hardware failure to maximize network uptime and ensures uninterrupted access. The appliances protect corporations, educational institutions and government organizations from internal and external threats including spyware, phishing, pharming, viruses, worms, Trojans, DoS attacks and other threats.



Identity-based Security in UTM

Cyberoam attaches the individual's identity to security, taking enterprises a step ahead of conventional solutions that bind security to immobile 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.



CR Series : 15i, 25i, 50i, 50ia, 100i, 100ia, 200i, 300i, 500i, 1000i, 1500i

Feature Specifications

Stateful Inspection Firewall

- Multiple Zones security with separate levels of access rules enforcement for each zone
- Rules based on the combination of User, MAC, Source & Destination Zone and IP address and Service
- Actions include policy based control for IPS, Content Filtering, Anti-virus, Anti-spam and Bandwidth Management
- Access Scheduling
- Policy based Source & Destination NAT
- H.323 NAT Traversal
- 802.1q VLAN Support
- DoS & DDoS attack prevention
- MAC & IP-MAC filtering and Spoof prevention

Gateway Anti-Virus & Anti-Spyware

- Virus, Worm, Trojan Detection & Removal
- Spyware, Malware, Phishing protection
- Automatic virus signature database update
- Scans HTTP, FTP, SMTP, POP3, IMAP, VPN tunnels
- Customize individual user scanning
- Self Service Quarantine area¹
- Scan and deliver by file size
- Block by file types
- Add disclaimer/signature

Gateway Anti-Spam

- Real-time Blacklist (RBL), MIME header check
- Filter based on message header, size, sender, recipient
- Subject line tagging
- Redirect spam mails to dedicated email address
- Image-spam filtering using RPD Technology
- Zero hour Virus Outbreak Protection
- Self Service Quarantine area¹
- IP address Black list/White list
- Spam Notification through Digest⁵
- IP Reputation-based Spam filtering

Intrusion Prevention System

- Signatures: Default (3000+), Custom
- IPS Policies: Multiple, Custom
- User-based policy creation
- Automatic real-time updates from CRProtect networks
- Protocol Anomaly Detection
- Block
 - P2P applications e.g. Skype
 - Anonymous proxies e.g. Ultra surf
 - "Phone home" activities
 - Keylogger

Content & Application Filtering

- Inbuilt Web Category Database
- URL, keyword, File type block
- Categories: Default(82+), Custom
- Protocols supported: HTTP, HTTPS
- Block Malware, Phishing, Pharming URLs
- Custom block messages per category
- Block Java Applets, Cookies, Active X
- CIPA Compliant
- Data leakage control via HTTP upload

Virtual Private Network

- IPSec, L2TP, PPTP
- Encryption - 3DES, DES, AES, Twofish, Blowfish, Serpen
- Hash Algorithms - MD5, SHA-1
- Authentication: Preshared key, Digital certificates
- IPSec NAT Traversal
- Dead peer detection and PFS support
- Diffie Hellman Groups - 1,2,5,14,15,16
- External Certificate Authority support
- Export Road Warrior connection configuration
- Domain name support for tunnel end points
- VPN connection redundancy
- Overlapping Network support
- Hub & Spoke VPN support

SSL VPN⁴

- TCP & UDP Tunneling
- Authentication - Active Directory, LDAP, RADIUS, Cyberoam
- Multi-layered Client Authentication - Certificate, Username/Password
- User & Group policy enforcement
- Network access - Split and Full tunneling
- Browser-based (Portal) Access - Clientless access
- Lightweight SSL VPN Tunneling Client
- Granular access control to all the Enterprise Network resources
- Administrative controls - Session timeout, Dead Peer Detection, Portal customization

Bandwidth Management

- Application and User Identity based Bandwidth Management
- Category-based Bandwidth restriction
- Guaranteed & Burstable bandwidth policy
- Application & User Identity based Traffic Discovery¹
- Multi WAN bandwidth reporting

User Identity & Group Based Controls

- Access time restriction
- Time and Data Quota restriction
- Schedule based Committed and Burstable Bandwidth
- Schedule based P2P and IM Controls

Networking

- Multiple Link Auto Failover
- WRR based Load balancing
- Policy routing based on Application and User
- DDNS/PPPoE Client
- Support for HTTP Proxy
- Dynamic Routing: RIP v1& v2, OSPF, BGP, Multicast Forwarding
- Parent Proxy support with FQDN
- DHCP Server and Relay

High Availability²

- Active-Active
- Active-Passive with state synchronization
- Stateful Failover
- Alerts on Appliance Status change

Administration & System Management

- Web based Configuration Wizard
- Role-based administration
- Multiple administrators and user levels
- Upgrades & changes via Web UI
- Web UI (HTTPS)
- Command line interface (Serial, SSH, Telnet)
- SNMP (v1, v2c, v3)
- Cyberoam Central Console (Optional)
- Multi-lingual support: Chinese, Hindi
- Version Rollback¹
- NTP Support

User Authentication

- Local database
- Windows Domain Controller & Active Directory Integration
- Automatic Windows Single Sign On
- External LDAP/RADIUS database Integration
- User/MAC Binding

Logging / Monitoring

- Internal HDD¹
- Graphical real-time and historical Monitoring
- Email notification of reports, viruses and attacks
- Syslog support

On-Appliance Reporting³

- Intrusion events reporting
- Policy violations reporting
- Web Category reporting (user, content type)
- Search Engine Keywords reporting
- Data transfer reporting (By Host, Group & IP Address)
- Virus reporting by User and IP Address
- 45+ Compliance Reports

VPN Client

- IPSec compliant
- Inter-operability with major IPSec VPN Gateways
- Supported platforms: Windows 98, Me, NT4, 2000, XP, Vista
- Import Connection configuration

Compliance

- CE
- FCC

Certification

- ICSA Firewall - Corporate
- VPNC - Basic and AES interoperability
- Checkmark UTM Level 5 Certification

¹Available only in CR25i, CR50i, CR50ia, CR100i, CR100ia, CR200i, CR300i, CR500i, CR1000i, CR1500i Appliances

²Available only in CR25i, CR50i, CR50ia, CR100i, CR100ia, CR200i, CR300i, CR500i, CR1000i, CR1500i Appliances

³Only for the previous day for CR15i Appliances

⁴Available only in CR25i, CR50i, CR50ia, CR100i, CR100ia, CR200i, CR250i, CR300i, CR500i, CR1000i, CR1500i Appliances

⁵Available only in CR25i, CR50i, CR50ia, CR100i, CR100ia, CR200i, CR300i, CR500i, CR1000i, CR1500i Appliances

Specifications	15i	25i	50i	50ia	100i	100ia
Interfaces						
10/100 Ethernet Ports	3	4	4	-	4	-
10/100/1000 GBE Ports	-	-	-	6	-	6
Configurable Internal/DMZ/WAN Ports	Yes	Yes	Yes	Yes	Yes	Yes
Console Ports (RJ45)	-	-	-	-	1	-
SFP (Mini GBIC) Ports	-	-	-	-	-	-
COM Ports	1	1	2	1	-	1
USB Ports	1	2	4	2	2	2
Hardware Bypass Segments	-	-	-	1*	-	1*
System Performance*						
Firewall throughput (Mbps)	90	100	175	750	200	1,000
New sessions/second	2,000	2,200	3,000	3,000	4,500	10,000
Concurrent sessions	30,000	130,000	220,000	220,000	370,000	400,000
3DES/AES throughput (Mbps)	15/25	30/75	50/60	50/60	80/100	80/100
Antivirus throughput (Mbps)	20	30	40	120	150	200
IPS throughput (Mbps)	40	60	100	200	160	300
UTM throughput (Mbps)	15	25	35	125	100	160
Nodes	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
Authenticated Users	Unlimited	10/25/Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
Dimensions						
H x W x D (inches)	1.7 x 6 x 9.1	1.97 x 8.86 x 8.07	1.72 x 16.8 x 9.1	1.7 x 16.8 x 10.3	1.72 x 16.8 x 9.1	1.7 x 16.8 x 10.3
H x W x D (cms)	4.4 x 15.3 x 23.2	5.0 x 22.5 x 20.5	4.4 x 42.7 x 23.5	4.3 x 42.7 x 26.2	4.4 x 42.7 x 23.5	4.3 x 42.7 x 26.2
Weight	1.5 kg, 3.307 lbs	2.1 kg, 4.62 lbs	4 kg, 8.82 lbs	5.3 kg, 11.68 lbs	4 kg, 8.82 lbs	5.3 kg, 11.68 lbs
Power						
Input Voltage	100-240VAC	100-240VAC	110-240VAC	115-230VAC	110-240VAC	115-230VAC
Consumption	13.2W	24.8W	25.09W	90W	30W	90W
Total Heat Dissipation (BTU)	45	85	102.6	200	102.6	200
Redundant Power Supply	-	-	-	-	-	-
Environmental						
Operating Temperature	0 to 40 °C	5 to 40 °C	0 to 40 °C	0 to 40 °C	0 to 40 °C	0 to 40 °C
Storage Temperature	-20 to 75 °C	0 to 70 °C	-20 to 80 °C	-20 to 80 °C	-20 to 80 °C	-20 to 80 °C
Relative Humidity (Non condensing)	10 to 95%	5 to 95%	10 to 90%	0 to 90%	10 to 90%	0 to 90%

Specifications	200i	300i	500i	1000i	1500i
Interfaces					
10/100 Ethernet Ports	-	-	-	-	-
10/100/1000 GBE Ports	6	6	6	10	10
Configurable Internal/DMZ/WAN Ports	Yes	Yes	Yes	Yes	Yes
Console Ports (RJ45)	1	1	1	1	1
SFP (Mini GBIC) Ports	-	-	-	2	2
COM Ports	-	-	-	-	-
USB Ports	2	2	2	2	2
Hardware Bypass Segments	1*	1*	2	2	2
System Performance*					
Firewall throughput (Mbps)	1,500	1,800	2,000	3,500	6,000
New sessions/second	12,000	15,000	20,000	25,000	40,000
Concurrent sessions	450,000	500,000	650,000	750,000	1,000,000
3DES/AES throughput (Mbps)	150/180	180/200	200/250	400/500	600/750
Antivirus throughput (Mbps)	250	450	600	700	900
IPS throughput (Mbps)	750	850	900	1,200	2500
UTM throughput (Mbps)	250	350	450	600	750
Nodes	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
Authenticated Users	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
Dimensions					
H x W x D (inches)	1.7 x 17.3 x 14.6	1.7 x 17.3 x 14.6	1.72 x 16.8 x 13.4	3.46 x 16.7 x 20.9	3.46 x 16.7 x 20.9
H x W x D (cms)	4.3 x 43.9 x 37.1	4.3 x 43.9 x 37.1	4.4 x 42.7 x 34.0	8.8 x 42.4 x 53.1	8.8 x 42.4 x 53.1
Weight	6.5 kg, 14.33 lbs	6.5 kg, 14.33 lbs	6.7 kg, 14.77 lbs	15.2 kg, 33.51 lbs	15.2 kg, 33.51 lbs
Power					
Input Voltage	115-230VAC	115-230VAC	110-240VAC	90-264VAC	90-264VAC
Consumption	41.5W	41.5W	82W	210W	210W
Total Heat Dissipation (BTU)	324	324	280	718	718
Redundant Power Supply	-	-	-	Yes	Yes
Environmental					
Operating Temperature	0 to 40 °C	0 to 40 °C	0 to 40 °C	0 to 40 °C	0 to 40 °C
Storage Temperature	-20 to 80 °C	-20 to 80 °C	-20 to 80 °C	-20 to 80 °C	-20 to 80 °C
Relative Humidity (Non condensing)	0 to 90%	0 to 90%	10 to 90%	10 to 90%	10 to 90%

*If Enabled, will bypass traffic only in case of Power failure.

*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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