



### 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, 50ia, 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, 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

#### 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 area<sup>1</sup>
- 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 area<sup>1</sup>
- IP address Black list/White list

#### 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 - VPN

- 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

#### Bandwidth Management

- Application and User Identity based Bandwidth Management
- Guaranteed & Burstable bandwidth policy
- Application & User Identity based Traffic Discovery<sup>1</sup>
- 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

#### High Availability<sup>2</sup>

- 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 Rollback<sup>1</sup>
- 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 HDD<sup>1</sup>
- Graphical real-time and historical Monitoring
- Email notification of reports, viruses and attacks
- Syslog support

#### On-Appliance Reporting<sup>3</sup>

- 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

<sup>1</sup>Available only in CR25i, CR50ia, CR100ia, CR200i, CR300i, CR500i, CR1000i and CR1500i Appliances

<sup>2</sup>Available only in CR50ia, CR100ia, CR200i, CR300i, CR500i, CR1000i and CR1500i Appliances

<sup>3</sup>Only for the previous day for CR15i Appliances

Specifications	15i	25i	50ia	100ia	200i
<b>Interfaces</b>					
10/100 Ethernet ports	3	4	-	-	-
10/100/1000 GBE Ports	-	-	6	6	6
Configurable Internal/DMZ/WAN Ports	Yes	Yes	Yes	Yes	Yes
Console ports (RJ45)	-	-	1	-	1
SFP (Mini GBIC) Ports	-	-	-	-	-
COM port	1	1	-	1	-
USB ports	1	2	2	2	2
<b>System Performance*</b>					
Firewall throughput (Mbps)	90	100	750	1,000	1,500
New sessions/second	2,000	2,200	3,000	10,000	12,000
Concurrent sessions	30,000	130,000	220,000	400,000	450,000
3DES/AES throughput (Mbps)	15/25	30/75	50/60	80/100	150/180
Antivirus throughput (Mbps)	20	30	120	200	250
IPS throughput (Mbps)	40	60	200	300	750
UTM throughput (Mbps)	15	25	125	160	250
Nodes	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
Authenticated Users	Unlimited	10/25/Unlimited	Unlimited	Unlimited	Unlimited
<b>Dimensions</b>					
H x W x D (inches)	1.7 x 6 x 9.1	1.97 x 8.86 x 8.07	16.8 x 10.3 x 1.7	16.8 x 10.3 x 1.7	14.6 x 17.3 x 1.7
H x W x D (cms)	4.4 x 15.3 x 23.2	5.0 x 22.5 x 20.5	42.8 x 25.5 x 4.4	42.8 x 25.5 x 4.4	37 x 44 x 4.4
Weight	1.5 kg, 3.307 lbs	2.1 kg, 4.62 lbs	5.3 kg, 11.68 lbs	5.3 kg, 11.68 lbs	6.5 kg, 14.33 lbs
<b>Power</b>					
Input Voltage	100-240VAC	100-240VAC	115-230VAC	115-230VAC	115-230VAC
Consumption	13.2W	24.8W	90W	90W	41.5W
Total Heat Dissipation (BTU)	45	85	200	200	324
Redundant Power Supply	-	-	-	-	-
<b>Environmental</b>					
Operating Temperature	0 to 40 °C	5 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
Relative Humidity (Non condensing)	10 to 95%	5 to 95%	0 to 90%	0 to 90%	0 to 90%

Specifications	300i	500i	1000i	1500i
<b>Interfaces</b>				
10/100 Ethernet ports	-	-	-	-
10/100/1000 GBE Ports	6	6	10	10
Configurable Internal/DMZ/WAN Ports	Yes	Yes	Yes	Yes
Console ports (RJ45)	1	1	1	1
SFP (Mini GBIC) Ports	-	-	2	2
COM port	-	-	-	-
USB ports	2	2	2	2
<b>System Performance*</b>				
Firewall throughput (Mbps)	1,800	2,000	3,500	6,000
New sessions/second	15,000	20,000	25,000	40,000
Concurrent sessions	500,000	650,000	750,000	1,000,000
3DES/AES throughput (Mbps)	180/200	200/250	400/500	600/750
Antivirus throughput (Mbps)	450	600	700	900
IPS throughput (Mbps)	850	900	1,200	2500
UTM throughput (Mbps)	350	450	600	750
Nodes	Unlimited	Unlimited	Unlimited	Unlimited
Authenticated Users	Unlimited	Unlimited	Unlimited	Unlimited
<b>Dimensions</b>				
H x W x D (inches)	14.6 x 17.3 x 1.7	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)	37 x 44 x 4.4	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	6.7 kg, 14.77 lbs	15.2 kg, 33.51 lbs	15.2 kg, 33.51 lbs
<b>Power</b>				
Input Voltage	115-230VAC	110-240VAC	90-264VAC	90-264VAC
Consumption	41.5W	82W	210W	210W
Total Heat Dissipation (BTU)	324	280	718	718
Redundant Power Supply	-	-	Yes	Yes
<b>Environmental</b>				
Operating Temperature	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
Relative Humidity (Non condensing)	0 to 90%	10 to 90%	10 to 90%	10 to 90%

\*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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