

With high-speed Internet becoming a reality in organizations along with rising number of devices per user and data usage increasing at exponential rates, the next-generation security appliances must match the needs of future networks. Cyberoam NG series delivers future-ready security to organizations by offering unmatched throughput speeds with its best-in-class hardware along with software to match.

NG series for SOHO and SMEs:

The NG series appliances for SOHO, SMEs are the "fastest UTMs" made for this segment.

NG Series for Large Enterprises:

The NG series appliances for enterprises offer "Next-Generation Firewall (NGFW)" protection to large enterprises with NGFW capabilities offering high performance required for future enterprise networks.

With Cyberoam NG series, businesses get assured Security, Connectivity and Productivity. The Layer 8 Technology attaches User-Identity to security, adding speed to an organization's security. Cyberoam's Extensible Security Architecture (ESA) supports feature enhancements that can be developed rapidly and deployed with minimum efforts.



Cyberoam NG Series : 15iNG, 25iNG, 25iNG-6P, 35iNG, 50iNG, 100iNG, 2500iNG
Cyberoam NG Wireless series : 15wiNG, 25wiNG, 25wiNG-6P, 35wiNG

Feature Specifications

Stateful Inspection Firewall

- Layer 8 (User - Identity) Firewall
- Multiple Security Zones
- Access Control Criteria (ACC) : User-Identity, Source and Destination Zone, MAC and IP address, Service
- UTM policies - IPS, Web Filtering, Application Filtering, Anti-virus, Anti-spam and Bandwidth Management
- Application (Layer 7) Control and Visibility
- Access Scheduling
- Policy based Source and Destination NAT
- H.323, SIP NAT Traversal
- 802.1q VLAN Support
- DoS and DDoS attack prevention
- MAC and IP-MAC filtering and Spoof prevention

Gateway Anti-Virus & Anti-Spyware

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

Gateway Anti-Spam

- Inbound/Outbound Scanning**
- 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*
- IP address Black list/White list
- Spam Notification through Digest*
- IP Reputation-based Spam filtering

Intrusion Prevention System

- Signatures: Default (4500+), Custom
- IPS Policies: Multiple, Custom
- User-based policy creation
- Automatic real-time updates from CRProtect networks
- Protocol Anomaly Detection
- DDoS attack prevention

Web Filtering

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

Application Filtering

- Inbuilt Application Category Database
- 11+ Application Categories e.g. Gaming, IM, P2P, Proxy
- Schedule-based access control
- Block
 - P2P applications e.g. Skype
 - Anonymous proxies e.g. Ultra surf
 - "Phone home" activities
 - Keylogger
- Layer 7 (Applications) & Layer 8 (User - Identity) Visibility

Web Application Firewall¹

- Positive Protection model
- Unique "Intuitive Website Flow Detector" technology
- Protection against SQL Injections, Cross-site Scripting (XSS), Session Hijacking, URL Tampering, Cookie Poisoning etc.
- Support for HTTP 0.9/1.0/1.1
- Back-end servers supported: 5 to 200 servers

Virtual Private Network

- IPSec, L2TP, PPTP
- Encryption - 3DES, DES, AES, Twofish, Blowfish, Serpent
- 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 VPN

- TCP & UDP Tunneling
- Authentication - Active Directory, LDAP, RADIUS, Cyberoam (Local)
- 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
- TCP-based Application Access - HTTP, HTTPS, RDP, TELNET, SSH

Instant Messaging (IM) Management

- Yahoo and Windows Live Messenger
- Virus Scanning for IM traffic
- Allow/Block: Login, File Transfer, Webcam, One-to-one/group Chat
- Content-based blocking
- IM activities Log
- Archive files transferred
- Custom Alerts

Wireless WAN

- USB port 3G/4G and WiMax Support
- Primary WAN link
- WAN Backup link

Bandwidth Management

- Application and User Identity based Bandwidth Management
- Category-based Bandwidth restriction
- Guaranteed & Burstable bandwidth policy
- Application & User Identity based Traffic Discovery⁴
- Multi WAN bandwidth reporting

User Identity-based and Group-based Controls

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

Networking

- Automated Failover/Failback, Multi-WAN
- WRR based Load balancing
- Policy routing based on Application and User
- IP Address Assignment - Static, PPPoE, L2TP, PPTP & DDNS Client, Proxy ARP, DHCP server, DHCP relay
- Supports HTTP Proxy, Parent Proxy with FQDN
- Dynamic Routing: RIP v1& v2, OSPF, BGP, Multicast Forwarding

High Availability⁵

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

Administration and System Management

- Web-based configuration wizard
- Role-based Access control
- Firmware Upgrades via Web UI
- Web 2.0 compliant UI (HTTPS)
- UI Color Styler
- Command line interface (Serial, SSH, Telnet)
- SNMP (v1, v2, v3)
- Multi-lingual support: Chinese, Hindi, French, Korean
- Cyberoam Central Console (Optional)
- NTP Support

User Authentication

- Internal database
- Active Directory Integration
- Automatic Windows Single Sign On
- External LDAP/RADIUS database Integration
- Thin Client support - Microsoft Windows Server 2003 Terminal Services and Citrix XenApp
- RSA SecurID support
- External Authentication - Users and Administrators
- User/MAC Binding
- Multiple Authentication servers

Logging and Monitoring

- Graphical real-time and historical Monitoring
- Email notification of reports, viruses and attacks
- Syslog support
- Log Viewer - IPS, Web filter, WAF, Anti-Virus, Anti-Spam, Authentication, System and Admin Events

On-Appliance Cyberoam - iView Reporting⁶

- Integrated Web-based Reporting tool - Cyberoam-iView
- 1000+ drilldown reports
- 45+ Compliance reports
- Historical and Real-time reports
- Multiple Dashboards
- Username, Host, Email ID specific Monitoring Dashboard
- Reports - Security, Spam, Virus, Traffic, Policy violations, VPN, Search Engine keywords
- Multi-format reports - tabular, graphical
- Exportable formats - PDF, Excel
- Automated Report Scheduling

IPSec VPN Client⁶

- Inter-operability with major IPSec VPN Gateways
- Supported platforms: Windows 2000, WinXP 32/64-bit, Windows 2003 32-bit, Windows 2008 32/64-bit, Windows Vista 32/64-bit, Windows 7 RC1 32/64-bit, Windows 8 RC1 32/64-bit
- Import Connection configuration

Certification

- ICSA Firewall - Corporate
- Checkmark UTM Level 5 Certification
- VPNC - Basic and AES interoperability
- IPv6 Ready Gold Logo

^{1,2,3,4,5,6} Available in all the Models except CR15iNG & CR15wiNG

⁶ Additional Purchase Required

⁷ Not supported in CR15iNG & WiFi series of appliances

⁸ Inbound and Outbound Spam filtering cannot be used simultaneously.

Specifications	15iNG	25iNG/6P	35iNG	15wiNG	25wiNG/6P	35wiNG
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Interfaces

Copper GbE Ports	3	4/6	6	3	4/6	6
Console Ports (RJ45)	1	1	1	1	1	1
USB Ports	2	2	2	2	2	2
Hardware Bypass Segments*	-	-	-	-	-	-
Configurable Internal/DMZ/WAN Ports	Yes	Yes	Yes	Yes	Yes	Yes

System Performance*

Firewall Throughput (UDP) (Mbps)	1,000	1,500	2,300	1,000	1,500	2,300
Firewall Throughput (TCP) (Mbps)	750	1,000	2,000	750	1,000	2,000
New sessions/second	3,500	5,000	12,000	3,500	5,000	12,000
Concurrent sessions	60,000	150,000	350,000	60,000	150,000	350,000
IPSec VPN Throughput (Mbps)	110	210	250	110	210	250
No. of IPSec Tunnels	50	100	150	50	100	150
SSL VPN Throughput (Mbps)	50	75	100	50	75	100
WAF Protected Throughput (Mbps)	-NA-	45	65	-NA-	45	65
Anti-Virus Throughput (Mbps)	180	300	525	180	300	525
IPS Throughput (Mbps)	140	200	350	140	200	350
UTM Throughput (Mbps)	80	110	210	80	110	210
Authenticated Users/Nodes	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited

Built-in Wireless LAN (Only for wiNG series)

Wireless Standards		IEEE 802.11 a/b/g/n (WEP, WPA, WPA2, 802.11i, TKIP, AES, PSK)
Antenna		Detachable 3x3 MIMO
Access Points		Up to 8 bssid
Transmit Power (EIRP)		11n HT40 : +15dBm, 11b CCK: +15dBm, 11g OFDM: +15dBm
Receiver Sensitivity		-68dBm at 300Mbps, -70dBm at 54Mbps, -88dBm at 6Mbps
Frequency Range		2.412 GHz - 2.472 GHz 5.200 GHz - 5.825 GHz
Number of Selectable Channels		USA (FCC) - 11 channels, EU (ETSI) / Japan (TELECOM) - 13 channels
Data Rate		802.11n: up to 450Mbps, 802.11b: 1, 2, 5, 11Mbps, 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps

Dimensions

H x W x D (inches)	1.7 x 6 x 9.1	1.7 x 6 x 9.1	1.7 x 6 x 9.1	1.7 x 6 x 9.1	1.7 x 6 x 9.1	1.7 x 6 x 9.1
H x W x D (cms)	4.4 x 15.3 x 23.2	4.4 x 15.3 x 23.2	4.4 x 15.3 x 23.2	4.4 x 15.3 x 23.2	4.4 x 15.3 x 23.2	4.4 x 15.3 x 23.2
Appliance Weight	1.5 kg, 3.307 lbs	2.3 kg, 5.07 lbs	2.3 kg, 5.07 lbs	1.5 kg, 3.307 lbs	2.3 kg, 5.07 lbs	2.3 kg, 5.07 lbs

Power

Input Voltage	100-240VAC	100-240VAC	100-240VAC	100-240VAC	100-240VAC	100-240VAC
Consumption	13.2W	33.5W	47.8W	13.2W	33.5W	47.8W
Total Heat Dissipation (BTU)	45	114	163	45	114	163
Redundant Power Supply	-	-	-	-	-	-

Specifications	50iNG	100iNG	2500iNG
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Interfaces

Copper GbE Ports	8	8	14
1GbE SFP (Mini GBIC) Ports	-	-	4
10GbE SFP (Mini GBIC) Ports	-	-	2
Console Ports (RJ45)	1	1	1
USB Ports	2	2	2
Hardware Bypass Segments*	2	2	2
Configurable Internal/DMZ/WAN Ports	Yes	Yes	Yes

System Performance*

Firewall Throughput (UDP) (Mbps)	3,250	4,500	36,000
Firewall Throughput (TCP) (Mbps)	3,000	3,500	28,000
New sessions/second	30,000	45,000	200,000
Concurrent sessions	1,000,000	1,250,000	3,500,000
IPSec VPN Throughput (Mbps)	400	450	8,000
No. of IPSec Tunnels	200	250	3,000
SSL VPN Throughput (Mbps)	300	400	1,000
WAF Protected Throughput (Mbps)	300	500	1,000
Anti-Virus Throughput (Mbps)	1,000	1,400	6,000
IPS Throughput (Mbps)	750	1,200	6,000
UTM Throughput (Mbps)	550	750	4,000
Authenticated Users/Nodes	Unlimited	Unlimited	Unlimited

Dimensions

H x W x D (inches)	1.7 x 14.6 x 17.3	1.7 x 14.6 x 17.3	3.54 x 17.52 x 23.23
H x W x D (cms)	4.4 X 37.2 X 44	4.4 X 37.2 X 44	9 x 44.5 x 59
Appliance Weight	5 kg, 11.02 lbs	5 kg, 11.02 lbs	19 kg, 41.8 lbs

Power

Input Voltage	100-240VAC	100-240VAC	90-260VAC
Consumption	99W	99W	258W
Total Heat Dissipation (BTU)	338	338	881
Redundant Power Supply	-	-	Yes

Environmental Conditions: Operating Temperature 0 °C to 40 °C, Storage Temperature -25 °C to 75 °C, Relative Humidity (Non condensing) 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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