

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. The NG series appliances for SOHO, SMEs are the “fastest UTM’s” made for this segment.

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.



NG Series UTM Appliances

NG Series : 10iNG, 15iNG, 25iNG/6P, 35iNG, 50iNG, 100iNG, 200iNG/XP, 300iNG/XP
NG Wireless Series : 15wiNG, 25wiNG, 25wiNG-6P, 35wiNG



Feature Specifications

Stateful Inspection Firewall

- Layer 8 (User - Identity) Firewall
- Multiple Security Zones
- Location and Device-aware Identity-based Access Control Policy
- Access Control Criteria (ACC): User-Identity, Source and Destination Zone, MAC and IP address, Service
- Security policies - IPS, Web Filtering, Application Filtering, Anti-virus, Anti-spam and QoS
- Country-based Traffic Control
- Access Scheduling
- Policy based Source and Destination NAT, Gateway Specific NAT Policy
- H.323, SIP NAT Traversal
- Spoof Prevention, DoS and DDoS attack prevention
- MAC and IP-MAC filtering

Intrusion Prevention System (IPS)

- Signatures: Default (4500+), Custom
- IPS Policies: Pre-configured Zone-based multiple policies, Custom
- Filter based selection: Category, Severity, Platform and Target (Client/Server)
- IPS actions: Recommended, Allow Packet, Drop Packet, Disable, Drop Session, Reset, Bypass Session
- User-based policy creation
- Automatic signature updates via Cyberoam Threat Research Labs
- Protocol Anomaly Detection
- SCADA-aware IPS with pre-defined category for ICS and SCADA signatures

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/S, POP3, IMAP, IM, VPN Tunnels
- Customized individual user scanning
- Self Service Quarantine area
- Scan and deliver by file size

Gateway Anti-Spam

- Inbound and Outbound¹ Scanning
- Real-time Blacklist (RBL), MIME header check
- Filter based on message header, size, sender, recipient
- Subject line tagging
- Language and Content-agnostic spam protection using RPD Technology
- Zero Hour Virus Outbreak Protection
- Self Service Quarantine area²
- IP address Black list/White list
- Spam Notification through Digest³
- IP Reputation based Spam filtering

Web Filtering

- On-Cloud Web Categorization
- Controls based on URL, Keyword and File type
- Web Categories: Default (89+), External URL Database, Custom
- Protocols supported: HTTP, HTTPS
- Block Malware, Phishing, Pharming URLs
- Web Category-based Bandwidth allocation and prioritization
- Block Java Applets, Cookies, Active X, Google Cache pages
- CIPA Compliant
- Data leakage control by blocking HTTP and HTTPS upload
- Schedule-based access control
- Custom Denied Message per Web Category
- Safe Search enforcement, YouTube for Schools

Application Filtering

- Layer 7 (Applications) & Layer 8 (User - Identity) Control and Visibility
- Inbuilt Application Category Database
- Control over 2,000+ Applications classified in 21 Categories
- Filter based selection: Category, Risk Level, Characteristics and Technology
- Schedule-based access control
- Visibility and Controls for HTTPS based Micro-Apps like Facebook chat, Youtube video upload

- Securing SCADA Networks
- SCADA/ICS Signature-based Filtering for Protocols Modbus, DNP3, IEC, Bacnet, Omron FINS, Secure DNP3, Longtalk
- Control various Commands and Functions

Web Application Firewall⁴

- 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 300 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
- Threat Free Tunnelling (TFT) Technology

SSL VPN

- TCP & UDP Tunnelling
- Authentication - Active Directory, LDAP, RADIUS, Cyberoam (Local)
- Multi-layered Client Authentication - Certificate, Username/Password
- User & Group policy enforcement
- Network access - Split and Full tunnelling
- Browser-based (Portal) Access - Clientless access
- Lightweight SSL VPN Tunnelling Client
- Administrative controls - Session timeout, Dead Peer Detection, Portal customization
- TCP based Application Access - HTTP, HTTPS, RDP, TELNET, SSH

Wireless WAN

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

Bandwidth Management

- Application, Web Category and Identity based Bandwidth Management
- Guaranteed & Burstable bandwidth policy
- Application & User Identity based Traffic Discovery
- Data Transfer Report for multiple Gateways

Networking

- WRR based Multilink Load Balancing
- Automated Failover/Failback
- Interface types: Alias, Multiprot Bridge, LAG (port trunking), VLAN, WLAN^{***}, WWAN, TAP
- DNS-based inbound load balancing
- IP Address Assignment - Static, PPPoE, L2TP, PPTP & DDNS, Client, Proxy ARP, Multiple DHCP Servers support, DHCP relay
- Supports HTTP Proxy, Parent Proxy with FQDN
- Dynamic Routing: RIP v1&v2, OSPF, BGP, PIM-SM, Multicast Forwarding
- Support of ICAP to integrate third-party DLP, Web Filtering and AV applications⁵
- Discover mode for PoC Deployments
- IPv6 Support:
 - Dual Stack Architecture: Support for IPv4 and IPv6 Protocols
 - IPv6 Route: Static and Source
 - IPv6 tunneling (6in4, 6to4, 6rd, 4in6)
 - Alias and VLAN
 - DNSv6 and DHCPv6 Services
 - Firewall security over IPv6 traffic
 - High Availability for IPv6 networks

High Availability⁶

- Active-Active
- Active-Passive with state synchronization
- Stateful Failover with LAG Support

Administration and System Management

- Web-based configuration wizard
- Role-based Access control
- Support of External Policy Manager (XML API)
- 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: English, Chinese, Hindi, French, Japanese
- Cyberoam Central Console (Optional)

User Authentication

- Internal database
- AD Integration with support for OU-based Security Policies
- Automatic Windows/RADIUS Single Sign On
- External LDAP/LDAPS/RADIUS database Integration
- Thin Client support
- 2-factor authentication: 3rd party support⁸
- User/MAC Binding
- SMS (Text-based) Authentication
- Layer 8 Identity over IPv6
 - Secure Authentication – AD, LDAP, Radius
 - Clientless Users
 - Authentication using Captive Portal

Logging and Monitoring

- Real-time and historical Monitoring
- Log Viewer - IPS, Web filter, WAF, Anti-Virus, Anti-Spam, Authentication, System and Admin Events
- Forensic Analysis with quick identification of network attacks and other traffic anomalies
- Syslog support
- 4-eye Authentication

On-Appliance Cyberoam - iView Reporting⁸

- Integrated Web-based Reporting tool
- 1,200+ drilldown reports
- Compliance reports - HIPAA, GLBA, SOX, PCI, FISMA
- Zone based application reports
- Historical and Real-time reports
- Default Dashboards: Traffic and Security
- Username, Host, Email ID specific Monitoring Dashboard
- Reports – Application, Internet & Web Usage, Mail Usage, Attacks, Spam, Virus, Search Engine, User Threat Quotient (UTQ) for high risk users and more
- Client Types Report including BYOD Client Types
- Multi-format reports - tabular, graphical
- Export reports in - PDF, Excel, HTML
- Email notification of reports
- Report customization – (Custom view and custom logo)
- Supports 3rd party PSA Solution – ConnectWise

IPSec VPN Client⁷⁷

- Inter-operability with major IPSec VPN Gateways
- Import Connection configuration

Certification

- Common Criteria - EAL4+
- ICSA Firewall - Corporate
- Checkmark Certification
- VPNC - Basic and AES interoperability
- IPv6 Ready Gold Logo
- Global Support Excellence - ITIL compliance (ISO 20000)

^{1,2,3,4,5} Available in all the Models except CR10iNG, CR15iNG & CR15wiNG
⁶For details, refer Cyberoam’s Technical Alliance Partner list on Cyberoam website.
⁷Supported in CR50iNG and above. ⁸Not supported in Wi-Fi series of appliances.
⁷⁷Additional Purchase Required ^{***}Available in Wi-Fi series of appliances.

Specifications	10iNG	15iNG	25iNG/6P	35iNG	15wiNG	25wiNG/6P	35wiNG
Interfaces							
Copper GbE Ports	3	3	4/6	6	3	4/6	6
Console Ports (RJ45)	1	1	1	1	1	1	1
USB Ports	2	2	2	2	2	2	2
Hardware Bypass Segments*	-	-	-	-	-	-	-
Configurable Internal/DMZ/WAN Ports	Yes	Yes	Yes	Yes	Yes	Yes	Yes
System Performance**							
Firewall Throughput (UDP) (Mbps)	400	1,200	1,800	3,700	1,200	1,800	3,700
Firewall Throughput (TCP) (Mbps)	300	900	1,200	2,400	900	1,200	2,400
New sessions/second	2,000	5,000	6,000	21,000	5,000	6,000	21,000
Concurrent sessions	27,500	200,000	500,000	750,000	200,000	500,000	750,000
IPSec VPN Throughput (Mbps)	100	130	210	280	130	210	280
No. of IPSec Tunnels	25	300	550	850	300	550	850
SSL VPN Throughput (Mbps)	25	50	75	100	50	75	100
WAF Protected Throughput (Mbps)	-NA-	-NA-	100	150	-NA-	100	150
Anti-Virus Throughput (Mbps)	100	200	350	600	200	350	600
IPS Throughput (Mbps)	90	160	240	650	160	240	650
UTM Throughput (Mbps)	60	90	125	300	90	125	300
Authenticated Users/Nodes	Unlimited	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 (TELEC) - 13 channels		
Data Rate					802.11n: up to 450Mbps, 802.11b: 1, 2, 5, 5, 11Mbps, 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps		
Dimensions							
H x W x D (inches)	1.35 x 8.75 x 6.8	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)	3.43 x 22.23 x 17.3	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	1.10 kg, 2.42 lbs	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	100-240VAC
Consumption	22W	13.2W	33.5W	47.8W	13.2W	33.5W	47.8W
Total Heat Dissipation (BTU)	75	45	114	163	45	114	163

Specifications	50iNG	100iNG	200iNG/XP	300iNG/XP
Interfaces				
Copper GbE Ports	8	8	10 / 6	10 / 6
Number of Slots for Flexi Ports Module	-	-	1	1
Flexi Ports Module*** (For XP Appliances) (1 GbE Copper / 1 GbE SFP / 10 GbE SFP)	-	-	8 / 8 / 4	8 / 8 / 4
Console Ports (RJ45)	1	1	1	1
USB Ports	2	2	2	2
Hardware Bypass Segments*	2	2	2	2
Configurable Internal/DMZ/WAN Ports	Yes	Yes	Yes	Yes
System Performance**				
Firewall Throughput (UDP) (Mbps)	6,500	8,000	10,000/14,000	12,000/21,000
Firewall Throughput (TCP) (Mbps)	4,000	5,000	8,000	9,500/10,500
New sessions/second	45,000	60,000	85,000	100,000
Concurrent sessions	1,000,000	3,000,000	3,200,000	3,200,000
IPSec VPN Throughput (Mbps)	850	1,050	1,150	1,300
No. of IPSec Tunnels	2,000	4,000	4,500	5,000
SSL VPN Throughput (Mbps)	300	400	450	500
WAF Protected Throughput (Mbps)	450	700	1,000	1,250
Anti-Virus Throughput (Mbps)	1,500	2,200	2,600	2,900
IPS Throughput (Mbps)	1,600	2,500	3,000	4,000
UTM Throughput (Mbps)	850	1,050	1,400	1,700
Authenticated Users/Nodes	Unlimited	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	1.7 x 17.3 x 11.85	1.7 x 17.3 x 11.85
H x W x D (cms)	4.4 X 37.2 X 44	4.4 X 37.2 X 44	4.4 x 43.9 x 30.1	4.4 x 43.9 x 30.1
Appliance Weight	5 kg, 11.02 lbs	5 kg, 11.02 lbs	5.1 kg, 11.24 lbs	5.1 kg, 11.24 lbs
Power				
Input Voltage	100-240VAC	100-240VAC	100-240VAC	100-240VAC
Consumption	99W	99W	137W	137W
Total Heat Dissipation (BTU)	338	338	467	467

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. ***Additional Purchase required, only single Flexi Ports Module can be used at a time.

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