

## Future-ready Security for SOHO/ROBO and SME networks

## Tech Sheet

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 :** 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
- 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 Scanning
- Outbound Scanning<sup>4</sup>
- 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
- Spam Notification through Digest<sup>2</sup>
- 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
- SCADA-aware IPS with pre-defined category for ICS and SCADA signatures

### Web Filtering

- Inbuilt Web Category Database
- URL, keyword, File type block
- Web Categories: Default(89+), 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
- 2,000+ Applications Supported
- Schedule-based access control
- Block
  - Proxy and Tunnel
  - File Transfer
  - Social Networking
  - Streaming Media
- Layer 7 (Applications) & Layer 8 (User - Identity) Visibility

- 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 Firewall<sup>3</sup>

- Positive Protection model
- Unique "Intuitive Website Flow Detector"<sup>3</sup> 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 Discovery<sup>4</sup>
- 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 Availability<sup>5</sup>

- 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: English, 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 Reporting<sup>6</sup>

- Integrated Web-based Reporting tool - Cyberoam-iView
- 1,200+ 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 Client<sup>7</sup>

- 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

- Common Criteria - EAL4+
- ICSA Firewall - Corporate
- Checkmark UTM Level 5 Certification
- VPNC - Basic and AES interoperability
- IPv6 Ready Gold Logo

<sup>1,2,3,4,5</sup> Available in all the Models except CR15iNG & CR15wiNG

<sup>6</sup> Additional Purchase Required

<sup>7</sup> Not supported in CR15iNG & WiFi series of appliances

Specifications	15iNG	25iNG/6P	35iNG	15wiNG	25wiNG/6P	35wiNG
<b>Interfaces</b>						
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
<b>System Performance**</b>						
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-	100	150	-NA-	100	150
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
<b>Built-in Wireless LAN (Only for wiNG series)</b>						
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		
<b>Dimensions</b>						
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
<b>Power</b>						
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

Specifications	50iNG	100iNG	200iNG/XP	300iNG/XP
<b>Interfaces</b>				
Copper GbE Ports	8	8	10 / 6	10 / 6
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
<b>System Performance**</b>				
Firewall Throughput (UDP) (Mbps)	3,250	4,500	10,000	12,000
Firewall Throughput (TCP) (Mbps)	3,000	3,500	8,000	9,500
New sessions/second	30,000	45,000	70,000	85,000
Concurrent sessions	1,000,000	1,250,000	1,500,000	2,000,000
IPSec VPN Throughput (Mbps)	400	450	800	1,200
No. of IPSec Tunnels	200	250	300	400
SSL VPN Throughput (Mbps)	300	400	450	500
WAF Protected Throughput (Mbps)	450	700	1,000	1,250
Anti-Virus Throughput (Mbps)	1,000	1,400	2,200	2,600
IPS Throughput (Mbps)	750	1,200	2,000	2,400
UTM Throughput (Mbps)	550	750	1,200	1,500
Authenticated Users/Nodes	Unlimited	Unlimited	Unlimited	Unlimited
<b>Dimensions</b>				
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
<b>Power</b>				
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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