The mobilization of workforce has led to demand for anytime-anywhere access to network resources. This, along with increasing number of users like customers and partners connecting to an enterprise network from outside, and trends like rise in number of network users and devices, application explosion, virtualization, and more are leading to loss of security controls for enterprises over their networks. Cyberoam Next-Generation Firewalls (NGFW) with Layer 8 Identity-based technology offer actionable intelligence and controls to enterprises that allow complete security controls over L2-L8 for their future-ready security. Cyberoam’s Human Layer 8 acts like a standard abstract layer that binds with real Layers 2-7, enabling organizations to regain lost security controls.


Cyberoam CR1000iNG-XP offers inline application inspection and control, website filtering, HTTPS inspection, Intrusion Prevention System, VPN (IPSec and SSL) and granular bandwidth controls. Additional security features like WAF, Gateway Anti-Virus, Anti-Spam are also available. The FleXi Ports (XP) available in CR1000iNG-XP appliances offer flexible network connectivity with I/O slots that allow additional Copper 1G, Fiber 1G/10G ports on the same security appliance.

Cyberoam NGFWs assure Security, Connectivity, Productivity

Security
- Network Security
  - Firewall
  - Intrusion Prevention System
  - Web Application Firewall

Administrative Security
- Next-Gen UI
- iView- Logging & Reporting

Content Security
- Anti-Virus/Anti-Spyware
- Anti-Spam (Inbound/Outbound)
- HTTPS/SSL Content Security

Connectivity
- Business Continuity
  - Multiple Link Management
  - High Availability

Network Availability
- VPN
- 3G/4G/WiMAX Connectivity

Future-ready Connectivity
- “IPv6 Ready” Gold Logo
- FleXi Ports (XP)

Productivity
- Employee Productivity
  - Content Filtering
  - Instant Messaging Archiving & Controls

IT Resource Optimization
- Bandwidth Management
- Traffic Discovery
- Application Visibility & Control

Administrator Productivity
- Next-Gen UI
Layer 8 Identity over IPv6
- Secure Authentication – AD, LDAP, Radius
- Clientless Users
- Authentication using Captive Portal

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

On-Appliance Cyberoam-View Reporting
- Integrated Web-based Reporting tool
- 1,200+ drilldown reports
- Compliance reports - HIPAA, GLBA, SOX, PCI, FISMA
- Zone based application reports
- Historical and Real-time data
- Default Dashboards: Traffic and Security
- Username, Host, Email id specific Monitoring Dashboard
- Reports – Application, 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
- Report exports in – PDF, Excel, HTML
- Email notification of reports
- Report customization – (Custom view and custom logo)
- Supports 3rd party PSA Solution – ConnectWise

Virtual Private Network
- IPSec, L2TP, PPTP
- Encryption – 3DES, AES, DES, TrueCrypt, Blowfish, Serpent
- Hash Algorithms - MD5, SHA-1
- Authentication Protocol: Pre-shared key, digital certificates
- IPSec NAT Traversal
- Dead peer detection and IPS support
- Offsite Healman 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 Tunneling (TFT) Technology

SSL VPN
- TCP & UDP Tunneling
- Authentication - AD, LADAP, 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

Web Filtering
- On-Web 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
- Block Java Applets, Cookies, Google Cache pages
- CIPA Compliant
- Data leakage control - block HTTP and HTTPS upload
- Scheduled based access control
- Safe Search enforcement, YouTube for Schools

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

Web Application Firewall
- Profile: Performance
- Unique “Intuitive Website Flow Detector” technology
- Protection against SGL Injections, Cross-site Scripting (XSS), Session Hijacking, URL Tampering, Cookie Poisoning etc.
- Support HTTP/1.0, 1.1
- End-back servers supported: 5 to 300 servers

Additional purchase required. Flexi Ports are not HOT swappable. Appliance needs to be turned off prior to changing the Flexi Ports Module. Actual performance may vary depending on the network. The WAF throughput is measured with Firewall, IPS, Web & Application Filtering and Anti-Virus features turned off. For details, refer to Cyberoam’s Technical Alliance Partner list on Cyberoam website. Additional Purchase Required for list of compatible platforms, refer to OS Compatibility Matrix on Cyberoam DOCs. ‘Need to purchase the Flexi Ports module with LAN Bypass (4-port 1 GbE Copper Modules). If Enabled, will bypass traffic only in case of power failure.

Gateway Anti-Virus & Anti-Spyware
- Virus, Worm, Trojan Detection and Removal
- Spyware, Malware, Phishing protection
- Automatic virus signature database update
- Scans HTTP/1.0, FTP, SMTP/POP, IMAP, VPN Tunnels
- Customizable individual user scanning
- Self Service Quarantine area
- Scan and delivery file size
- Block by file type

Gateway Anti-Spam
- Inbound and Outbound Scanning
- Real-time Blacklist (RBL): MIME header check
- Filter spam based on message header, size, sender, recipient
- Language and Content-agnostic spam protection 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

Wireless LAN
- USB port 3G/4G and WIMAX Support
- Primary WLAN link
- WAN Backup link

Networking
- WRR based Multilink Load Balancing
- Automated Failover/Failback
- Interface types: Alias, Multiport Bridge, LAG (port trunking), VLAN, WWAN, TAP
- DNS-based inbound load balancing
- IP Address Assignment - Static, PPPoE with (Switch Management), L2TP, PPTP & DDNS, Client, Proxy ARP, Multiple DHCP Servers support, DHCP relay
- Support HTTP Proxy, Parent Proxy with FQDN
- Dynamic Routing: RIPv1 v2, OSPF, BGP, PIM-SIM, Multicast Forwarding
- Supporting multiple ICAP to integrate third-party DLP, Web Filtering and AV applications
- Diagnostics for PoC Deployments
- IPv6 Support:
  - Dual Stack Architecture: Support for IPv6 and IPv4 Protocols
  - Management over IPv6
  - IPv6 Route: Static and Source
  - IPv6 tunneling (6v4, 6to4, 6in4, 4in6)
  - Alias and VLAN
  - DNSv6 and DHCPv6 Services
- Firewall security over IPv4 traffic
- High Availability for IPv6 networks

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

IPSec VPN Client
- 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)

Hardware Specifications
- Memory
  - 6GB
  - Compact Flash
  - 4GB
  - HDD
  - 250GB or higher

Compliance
- CC
- FCC

Dimensions
- H x W x D (inches)
  - 3.54 x 17.52 x 23.23
- H x W x D (cms)
  - 9 x 44.5 x 59
- Weight
  - 19kg, 41.8lbs

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

Environmental
- Operating Temperature
  - 0 to 40 °C
- Storage Temperature
  - 0 to 70 °C
- Relative Humidity (Non condensing)
  - 10 to 90%