



FleXi Ports Module









Data Sheet



Next-Generation Firewall for Enterprise Networks

CR2500iNG-XP

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 CR2500iNG-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 CR2500iNG-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 security appliances offer high performance, assured Security, Connectivity and Productivity and an Extensible Security Architecture (ESA) for future-ready security in enterprises.













Next-Generation Firewall for Enterprises:

Offering Actionable Intelligence and Controls

Cyberoam's Layer 8 Technology treats "User Identity" as the 8th Layer in the protocol stack



Cyberoam NGFW offers security across Layer 2-Layer 8 using Identity-based policies

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

- 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



Specification

Interfaces

Maximum number of Available Ports	42
Fixed Copper GbE Ports	10
Number of Slots for FleXi Ports Module	4
Port options per FleXi Ports Module	8/8/4
(GbE Copper/GbE Fiber/10GbE Fiber)	
Console Ports (RJ45)	1
Configurable Internal/DMZ/WAN Ports	Yes
USB Ports	2

160,000
70,000
300,000
20,000,000
10,000
9,500
1,450
2,600
12,000
20,000
10,000
8,250

- Stateful Inspection Firewall
 Layer 8 (User Identity) Firewall
 Multiple Security Zones

- Multiple decliny Zolies
 Location-aware 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 - Folicy dased source and Destinat Specific NAT Policy - H.323, SIP NAT Traversal - DoS and DDoS attack prevention - MAC and IP-MAC filtering - Spoof Prevention

- Intrusion Prevention System
 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

- Application Filtering
 Layer 7 (Applications) & Layer 8 (User Identity) Control and Visibility
- Inbuilt Application Category Database
 Control over 2,000+ Applications classified in 21

- 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
 SCADAI/CS Signature-based Filtering for Protocols Modbus, DNP3, IEC, Bacnet, Omron FINS, Secure DNP3, Longtalk
 Control various Commands and Functions

Administration & System Management - Web-based configuration wizard - Role-based Access control

- Support of API Firmware Upgrades via Web UI Web 2.0 compliant UI (HTTPS)
- Command Line Interface (Serial, SSH, Telnet) SNMP (v1, v2, v3)
- Multi-lingual : English, Chinese, Hindi, French, Japanese Cyberoam Central Console (Optional)

User Authentication

- Internal databaseAD Integration and OU-based Security Policies
- Automatic Windows/RADIUS Single Sign On
- External LDAP/LDAPS/RADIUS database Integration
- Thin Client support2-factor authentication: 3rd party support
- SMS (Text-based) Authentication

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, Authentication, System and Admin Events Forensic Analysis with quick identification of network attacks and other traffic anomalies
- Syslog support
- 4-eye Authentication

Cyberoam On-Appliance Cyberoam-iView 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 reports Default Dashboards: Traffic and Security Lisergame Host Email ID specific Monitoring

- Username, Host, Email ID specific Monitoring
- 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

- Virtual Private Network IPSec, L2TP, PPTP Encryption 3DES, DES, AES, Twofish, Blowfish,
- 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 AD, LDAP, RADIUS, Cyberoam (Local)
 Multi-layered Client Authentication Certificate,
 Username/Password
- User & Group policy enforcement

- Osea & Group poincy efficientials
 Network access Split and Full tunnelling
 Browser-based (Portal) Access Clientless access
 Lightweight SSL VPN Tunnelling 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-Cloud Web Categorization
 Controls based on URL, Keyword and File type
 Web Categories: Default (89+), External URL Database,

- 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
- Schedule-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
 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

- Gateway Anti-Virus & Anti-Spyware
 Virus, Worm, Trojan Detection and Removal
- Virus, Worm, Irojan Detection and Temoval
 Spyware, Malware, Phishing protection
 Automatic virus signature database update
 Scans HTTP/S, FTP, SMTP/S, POP3, IMAP, VPN Tunnels
 Customize individual user scanning

- Self Service Quarantine area
- Scan and deliver by file size
 Block by file types

- Gateway Anti-Spam
 Inbound and Outbound Scanning
 Real-time Blacklist (RBL), MIME header check
- Filter 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 WAN
- USB port 3G/4G and WiMAX Support Primary WAN 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 Schedule Management), L2TP, PPTP & DDNS, Client, Proxy ARP,
- Management), 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-SIM, Multicast Forwarding
 Support of IcAP to integrate third-party DLP, Web Filtering and AV applications
 Discover mode for PoC Deployments
 IPv6 Support:
 Dual Stack Architecture: Support for IPv4 and IPv6
 Protocols
- - Protocols
 Management over IPv6
 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 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 16GB Memory Compact Flash HDD

Compliance

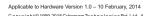
FCC

Dimensions H x W x D (inches) H x W x D (cms) Weight 3.54 x 17.52 x 23.23

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

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

'Additional purchase required. FleXi Ports are not HOT swappable. Appliance needs to be turned off prior to changing the FleXi Ports Module. "Antivirus, IPS and Fully Protected Throughput performance is measured based on HTTP traffic as per RFC 3511 guidelines. Actual performance may vary depending on the real network traffic environments." NGFW throughput is measured with Firewall, IPS and Web & Application Filtering features turned on.
"Fully Protected Throughput is measured with Firewall, IPS, Web & Application Filtering and Anti-Virus features turned on. "For details, refer 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.



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4GB 250GB or higher

19kg, 41.8lbs

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