



FleXi Ports Module











Data Sheet



Next-Generation Firewall for Enterprise Networks

CRI500iNG-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 CR1500iNG-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 CR1500iNG-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

L8 L7 **Application** Presentation ASCII, EBCDIC, ICA Session L2TP, PPTP L5 Transport L4 Network L2 Data Link 00-17-BB-8C-E3-E7 Physical

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 Number of Slots for FleXi Ports Module 10 Port options per FleXi Ports Module 8.4/8/4 (GbE Copper/GbE Fiber/10GbE Fiber) Console Ports (RJ45)
Configurable Internal/DMZ/WAN Ports
USB Ports Yes Hardware Bypass Segments# -Yes

System Performance"
Firewall Throughput (UDP) (Mbps)
Firewall Throughput (TCP) (Mbps)
New sessions/second 140,000 60.000 265,000 Concurrent sessions
IPSec VPN Throughput (Mbps)
No. of IPSecTunnels 15,000,000 8,000 8,500 No. OTH SECTUMES SSL VPN Throughput (Mbps) WAF Protected Throughput (Mbps) Anti-Virus Throughput (Mbps) IPS Throughput (Mbps) NGFW Throughput (Mbps) Fully Protected Throughput (Mbps) 1,050 2,300 9.000 15,000 8,250 6.750

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

- Access Scheduling
 Policy based Source and Destination NAT, Gateway
 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 Categories

- Categories
 Filter based selection: Category, Risk Level,
 Characteristics and Technology
 Schedule-based access control
 Visibility and Controls for HTTPS based Micro-Apps like
- Securing SCADA Networks
 Securing SCADA Networks
 SCADA/ICS 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, v2c)
- Multi-lingual : English, Chinese, Hindi, French, Japanese Cyberoam Central Console (Optional)

User Authentication

- Internal database
- AD Integration and OU-based Security Policies
 Automatic Windows/RADIUS Single Sign On
 External LDAP/LDAPS/RADIUS database Integration
- Thin Client support
- 2-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

LVIEW

- 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
 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

- Property Property
- 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 policy efflorcement
 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
 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
- Larguage and Content-Agriosuc spar 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

- 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, Multiple DHCP Servers support, DHCP relay
 Supports HTTP Proxy, Parent Proxy with FQDN
 Dynamic Routing: RIP v18 v2, OSPF, BGP, PIM-SIM, Multipast Footwarding.

- Dynamic Kouling. Kir Vi& V2, OSPF, BGP, PIW-SIW, 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

 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-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 12GB Compact Flash HDD 4GB

Compliance

FCC Dimensions 3.54 x 17.52 x 23.23 H x W x D (inches) H x W x D (cms) Weight 9 x 44.5 x 59

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

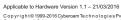
Environmental Operating Temperature Storage Temperature Relative Humidity (Non condensing) 0 to 40 °C 0 to 70 °C

'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. "For IPS 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 DCCS." Need to purchase the FleXi Ports module with LAN Bypass (4-port 1 GbE Copper Module). If Enabled, will bypass traffic only in case of power failure.

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Appliance image. Hardware and Power Specifications are subject to change, without prior notice



250GB or higher

19kg, 41.8lbs