



FleXi Ports Module









Data Sheet



Next-Generation Firewall for Enterprise Networks

CRISOOING-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



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
Copper GbE Ports (Fixed)	10
Number of Slots for FleXi Ports Module	4
Port Options for 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

System Performance Firewall Throughput (UDP) (Mbps) Firewall Throughput (TCP) (Mbps) New sessions/second Concurrent sessions IPSec VPN Throughput (Mbps) No. of IPSecTunnels SSL VPN Throughput (Mbps) WAF Protected Throughput (Mbps) Anti-Virus Throughput (Mbps) IPS Throughput (Mbps) IPS Throughput (Mbps) NGFW Throughput (Mbps)	32,000 26,000 265,000 7,500,000 4,500 4,000 1,050 2,300 5,000 12,500 6,000
Fully Protected Throughput (Mbps)	3,600

- -Application (Layer 7) Control and Visibility

- -H.323, SIP NAT Traversal
 -802.1q VLAN Support
 DoS and DDoS Attack prevention
 MAC and IP-MAC filtering and Spoof prevention

- 2,000+ Applications Supported Schedule-based access control

- 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

Intrusion Prevention System (IPS)

- 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

User Identity and Group Based Controls -Access time restriction

- Time and Data Quota restriction Schedule-based Committed and Burstable Bandwidth
- Schedule-based P2P and IM Controls

Administration and System Management - Web-based configuration wizard

- Role-based access control
- Firmware Upgrades via Web UI Web 2.0 compliant UI (HTTPS)

- Command Line Interface (Serial, SSH, Telnet)
 SNMP (v1, v2, v3)
 Multi-lingual support: English, Chinese, Hindi, French,
- Japanese
- Network Time Protocol Support

- Internal database -Active Directory Integration
- -Automatic Windows Single Sign On
- External LDAP/RADIUS database integration
- Thin Client support Microsoft Windows Server 2003/2008

- Terminal Services and Citrix XenApp Novell eDirectory
- 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, gateway status, viruses and
- Syslog support
- System and Admin Events
 Spam, Authentication, System and Admin Events

On-Appliance Cyberoam-iView Reporting - Integrated Web-based Reporting tool -



- Cyberoam-iView
 1200+ drilldown reports

- 45+ Compliance Reports
- Historical and Real-time reports Multiple Dashboards
- Username, Host, Email ID specific Monitoring
- Reports Security, Virus, Spam, Traffic, VPN, Search Engine keywords
- Multi-format reports tabular, graphical Exportable formats PDF, Excel Automated Report Scheduling

- **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 and Spoke VPN support

SSL VPN

- -TCP and UDP Tunneling
 Authentication Active Directory, LDAP, RADIUS, Cyberoam (Local)
- -Multi-layered Client Authentication Certificate,

- Wutinayered Client Authentication Certificate, Username/Password
 User and 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
- Administrative controls Session timeout, Dead Peer Detection. Portal customization
- TCP- based Application Access HTTP, HTTPS, RDP, TELNET, SSH

- Web Filtering
 Inbuilt Web Category Database
 URL, keyword, File type block
 Categories: Default(89+), Custom
 Protocols supported: HTTP, HTTPS
- Block Malware, Phishing, Pharming URLs
- Schedule-based access control Custom block messages per category Block Java Applets, Cookies, Active X
- CIPA Compliant
- Data leakage control via HTTP, HTTPS upload

Bandwidth Management

- Application and User Identity based Bandwidth Management
- Management
 Guaranteed and Burstable bandwidth policy
 Application and User Identity based Traffic Discovery
 Multi WAN bandwidth reporting
 Category-based bandwidth restriction

- 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

- 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/Outbound Scanning Real-time Blacklist (RBL), MIME header check
- Filter based on message header, size, sender, recipient
- Subject line tagging IP address Black list/White list
- Redirect Spam mails to dedicated email address
- Image-based Spam filtering using RPD Technology Zero hour Virus Outbreak Protection
- Self Service Quarantine area
- 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 - Failover - Automated Failover/Failback, Multi-WAN Failover, 3G/4G Modem Failover

- WRR based load balancing
- wriss passed load balancing
 Policy routing based on Application and User
 IP Address Assignment Static, PPPoE, L2TP, PPTP &
 DDNS Client, Proxy ARP, DHCP server, DHCP relay
 Support for HTTP Proxy
 Dynamic Routing: RIP v1 and v2, OSPF, BGP, Multicast
- Forwarding - Parent Proxy support with FQDN - "IPv6 Ready" Gold Logo

High Availability

- -Active-Active Synchronization
- Stateful failover
- Alerts on appliance status change

IPSec VPN Client

- 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 32/64-bit - Import Connection configuration

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

Hardware Specifications Memory 12GB Compact Flash 250GB or higher HDD

Compliance CE FCC

Dimensions HxWxD (inches) 3.54 x 17.52 x 23.23 HxWxD(cms) 9 x 44.5 x 59 Weight 19kg, 41.8lbs

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

Environmental

Operating Temperature Storage Temperature 0 to 40 °C 0 to 70 °C Relative Humidity (Non condensing) 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. """Additional Purchase Required.

Applicable to Hardware Version 1.0 – 10 February, 2014

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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 Security policies IPS, Web Filtering, Application Filtering, Anti-Virus, Anti-Spam and Bandwidth
- Management
- -Access Scheduling
 Policy based Source and Destination NAT

- Application Filtering
 Inbuilt Application Category Database
- Scriedule-based acce Block Proxy and Tunnel File Transfer Social Networking

- Signatures: Default (4500+), Custom IPS Policies: Multiple, Custom

SCADA signatures

- UI Color Styler
- Cyberoam Central Console (Optional)
- **User Authentication**

Toll Free Numbers