Cyberoam CR1500iNG-XP Firewall

Product Name: Cyberoam CR1500iNG-XP Firewall
Manufacturer: -
Model Number: CR1500iNG-XP

Please Note: This product has been discontinued. Please see the Sophos XG Firewall XG550 Appliance.

Cyberoam CR1500iNG-XP Firewall
The 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 AntiVirus, 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 CR1500iNG-XP Firewall Features

ï¿½ 8×10/100/1000 Ethernet ports
ï¿½ 32000 Mbps Firewall Throughput
ï¿½ 6000 Mbps NGFW Throughput
ï¿½ 3600 Mbps Fully Protected Throughput
ï¿½ Layer 8 Identity-based Security
ï¿½ Application Visibility & Control

The mobilisation of the 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 rises in the number of network users and devices, application explosion, virtualisation, 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 Firewall- Technical Specifications
Interfaces

ï¿½ Maximum number of Available Ports 42
ï¿½ Fixed Copper GbE Ports10
ï¿½ Number of Slots for FleXi Ports Module4
ï¿½ Port options per FleXi Ports Module*** 8,4 / 8 / 4
ï¿½ (GbE Copper/GbE Fiber/10GbE Fiber)
ï¿½ Console Ports (RJ45) 1
ï¿½ Configurable Internal/DMZ/WAN Ports Yes
ï¿½ USB Ports 2
ï¿½ # Hardware Bypass Segment Yes

System Performance*

ï¿½ Firewall Throughput (UDP) (Mbps) 140,000
ï¿½ Firewall Throughput (TCP) (Mbps) 60,000
ï¿½ New sessions/second 265,000
ï¿½ Concurrent sessions 15,000,000
ï¿½ IPSec VPN Throughput (Mbps) 8,000
ï¿½ No. of IPSecTunnels 8,500
ï¿½ SSLVPN Throughput (Mbps) 1,050

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ï¿½ WAF Protected Throughput (Mbps) 2,300
ï¿½ Anti-Virus Throughput (Mbps) 9,000
ï¿½ IPS Throughput (Mbps) 15,000
ï¿½ NGFW Throughput (Mbps)**** 8,250
ï¿½ Fully Protected Throughput (Mbps)***** 6,750

Stateful Inspection Firewall

ï¿½ Layer 8 (User - Identity) Firewall
ï¿½ Multiple Security Zones
ï¿½ Location-aware and Device-aware Identity-based AccessControl Policy
ï¿½ Access Control Criteria (ACC): User-Identity, Source andDestination Zone, MAC and IP address, Service
ï¿½ Security policies - IPS, Web Filtering, ApplicationFiltering, Anti-virus, Anti-spam and QoS
ï¿½ Country-based Traffic Control
ï¿½ Access Scheduling
ï¿½ Policy based Source and Destination NAT, Gateway
ï¿½ Specific NAT Policy
ï¿½ H.323, SIP NAT Traversal
ï¿½ DoS and DDoS attack prevention
ï¿½ MAC and IP-MAC filtering
ï¿½ Spoof Prevention

Intrusion Prevention System

ï¿½ Signatures: Default (4500+), Custom
ï¿½ IPS Policies: Pre-configured Zone-based multiple policies, Custom
ï¿½ Filter based selection: Category, Severity, Platform andTarget (Client/Server)
ï¿½ IPS actions: Recommended, Allow Packet, Drop Packet,Disable, Drop Session, Reset, Bypass Session
ï¿½ User-based policy creation
ï¿½ Automatic signature updates via Cyberoam ThreatResearch Labs
ï¿½ Protocol Anomaly Detection
ï¿½ SCADA-aware IPS with pre-defined category for ICS and SCADA signatures

Gateway Anti-Virus & Anti-Spyware

ï¿½ Virus, Worm, Trojan Detection and Removal
ï¿½ Spyware, Malware, Phishing protection
ï¿½ Automatic virus signature database update
ï¿½ Scans HTTP, HTTPS, FTP, SMTP/S, POP3, IMAP, IM, VPN Tunnels
ï¿½ Customize individual user scanning
ï¿½ Self Service Quarantine area
ï¿½ Scan and deliver by file size
ï¿½ Block by file types

Gateway Anti-Spam

ï¿½ Inbound and Outbound Scanning
ï¿½ Real-time Blacklist (RBL), MIME header check
ï¿½ Filter based on message header, size, sender, recipient
ï¿½ Subject line tagging
ï¿½ Language and Content-agnostic spam protection using RPD Technology
ï¿½ Zero Hour Virus Outbreak Protection
ï¿½ Self Service Quarantine area

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ï¿½ IP address Black list/White list-
ï¿½ Spam Notification through Digest
ï¿½ IP Reputation based Spam filtering

Web Filtering

ï¿½ On-Cloud Web Categorization
ï¿½ Controls based on URL, Keyword and File type
ï¿½ Web Categories: Default (89+), External URL Database,Custom
ï¿½ Protocols supported: HTTP, HTTPS-
ï¿½ Block Malware, Phishing, Pharming URLs
ï¿½ Block Java Applets, Cookies, Active X, Google Cachepages
ï¿½ CIPA Compliant
ï¿½ Data leakage control by blocking HTTP and HTTPSupload
ï¿½ Schedule-based access controlCustom Denied Message per Web Category
ï¿½ Safe Search enforcement, YouTube for Schools

Application Filtering

ï¿½ Layer 7 (Applications) & Layer 8 (User - Identity) Control and Visibility
ï¿½ Inbuilt Application Category Database
ï¿½ Control over 2,000+ Applications classified in 21Categories
ï¿½ Filter based selection: Category, Risk Level, Characteristics and Technology
ï¿½ Schedule-based access control
ï¿½ Visibility and Controls for HTTPS based Micro-Apps like Facebook chat, Youtube video upload
ï¿½ Securing SCADA Networks
ï¿½ SCADA/ICS Signature-based Filtering for Protocols
ï¿½ Modbus, DNP3, IEC, Bacnet, Omron FINS, Secure
ï¿½ DNP3, Longtalk
ï¿½ Control various Commands and Functions

Web Application Firewall

ï¿½ Positive Protection model
ï¿½ Unique "Intuitive Website Flow Detector" technology
ï¿½ Protection against SQL Injections, Cross-site Scripting (XSS), Session Hijacking, URL Tampering, CookiePoisoning etc.
ï¿½ Support for HTTP 0.9/1.0/1.1
ï¿½ Back-end servers supported: 5 to 300 servers

Virtual Private Network

ï¿½ IPSec, L2TP, PPTPEncryption - 3DES, DES, AES, Twofish, Blowfish, Serpent
ï¿½ Hash Algorithms - MD5, SHA-1
ï¿½ Authentication: Preshared key, Digital certificates
ï¿½ IPSec NAT Traversal
ï¿½ Dead peer detection and PFS support
ï¿½ Diffie Hellman Groups - 1, 2, 5, 14, 15, 16
ï¿½ External Certificate Authority support
ï¿½ Export Road Warrior connection configuration
ï¿½ Domain name support for tunnel end points
ï¿½ VPN connection redundancy
ï¿½ Overlapping Network support
ï¿½ Hub & Spoke VPN support

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ï¿½ Threat Free Tunnelling (TFT) Technology

SSL VPN

ï¿½ TCP & UDP Tunnelling
ï¿½ Authentication - Active Directory, LDAP, RADIUS,Cyberoam (Local)
ï¿½ Multi-layered Client Authentication - Certificate,Username/Password
ï¿½ User & Group policy enforcement
ï¿½ Network access - Split and Full tunnelling
ï¿½ Browser-based (Portal) Access - Clientless access
ï¿½ Lightweight SSL VPN Tunnelling Client
ï¿½ Granular access control to all the enterprise networkresources
ï¿½ Administrative controls - Session timeout, Dead PeerDetection, Portal customization
ï¿½ TCP based Application Access - HTTP, HTTPS, RDP,TELNET, SSH

Wireless WAN

ï¿½ USB port 3G/4G and WiMAX Support
ï¿½ Primary WAN link
ï¿½ WAN Backup link

Bandwidth Management

ï¿½ Application, Web Category and Identity based Bandwidth Management
ï¿½ Guaranteed & Burstable bandwidth policy
ï¿½ Application & User Identity based Traffic Discovery
ï¿½ Data Transfer Report for multiple Gateways

Networking

ï¿½ WRR based Multilink Load Balancing
ï¿½ Automated Failover/Failback
ï¿½ Interface types: Alias, Multiport Bridge, LAG (port trunking), VLAN, WWAN, TAP
ï¿½ DNS-based inbound load balancing
ï¿½ IP Address Assignment - Static, PPPoE (with ScheduleManagement), L2TP, PPTP &
DDNS, Client, Proxy ARP,Multiple DHCP Servers support, DHCP relay
ï¿½ Supports HTTP Proxy, Parent Proxy with FQDN
ï¿½ Dynamic Routing: RIP v1& v2, OSPF, BGP, PIM-SIM,Multicast Forwarding
ï¿½ Support of ICAP to integrate third-party DLP, WebFiltering and AV applications
ï¿½ Discover mode for PoC Deployments
ï¿½ IPv6 Support:
ï¿½ Dual Stack Architecture: Support for IPv4 and IPv6Protocols
ï¿½ Management over IPv6
ï¿½ IPv6 Route: Static and Source
ï¿½ IPv6 tunneling (6in4, 6to4, 6rd, 4in6)
ï¿½ Alias and VLAN
ï¿½ DNSv6 and DHCPv6 ServicesFirewall security over IPv6 traffic
ï¿½ High Availability for IPv6 networks

High Availability

ï¿½ Active-Active
ï¿½ Active-Passive with state synchronization
ï¿½ Stateful Failover with LAG Support

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Administration & System Management

ï¿½ Web-based configuration wizard
ï¿½ Role-based Access control
ï¿½ Support of API
ï¿½ Firmware Upgrades via Web UI
ï¿½ Web 2.0 compliant UI (HTTPS)
ï¿½ UI Color Styler
ï¿½ Command Line Interface (Serial, SSH, Telnet)
ï¿½ SNMP (v1, v2c)
ï¿½ Multi-lingual : English, Chinese, Hindi, French, Japanese
ï¿½ Cyberoam Central Console (Optional)

User Authentication

ï¿½ Internal database
ï¿½ AD Integration and OU-based Security Policies
ï¿½ Automatic Windows/RADIUS Single Sign On
ï¿½ External LDAP/LDAPS/RADIUS database Integration
ï¿½ Thin Client support
ï¿½ 2-factor authentication: 3rd party support**
ï¿½ SMS (Text-based) Authentication
ï¿½ Layer 8 Identity over IPv6
ï¿½ Secure Authentication – AD, LDAP, Radius
ï¿½ Clientless Users
ï¿½ Authentication using Captive Portal

Logging/Monitoring

ï¿½ Real-time and historical Monitoring
ï¿½ Log Viewer - IPS, Web filter, WAF, Anti-Virus, Anti-Spam,Authentication, System and Admin
Events
ï¿½ Forensic Analysis with quick identification of networkattacks and other traffic anomalies
ï¿½ Syslog support
ï¿½ 4-eye Authentication

On-Appliance Cyberoam-iView Reporting

ï¿½ Integrated Web-based Reporting tool
ï¿½ 1,200+ drilldown reports
ï¿½ Compliance reports - HIPAA, GLBA, SOX, PCI, FISMA
ï¿½ Zone based application reports
ï¿½ Historical and Real-time reports
ï¿½ Default Dashboards: Traffic and Security
ï¿½ Username, Host, Email ID specific Monitoring Dashboard
ï¿½ Reports – Application, Internet & Web Usage, Mail Usage,Attacks, Spam, Virus,
Search Engine, User ThreatQuotient (UTQ) for high risk users and more
ï¿½ Client Types Report including BYOD Client Types
ï¿½ Multi-format reports - tabular, graphical
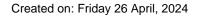ï¿½ Export reports in - PDF, Excel, HTML
ï¿½ Email notification of reports
ï¿½ Report customization – (Custom view and custom logo)
ï¿½ Supports 3rd party PSA Solution – ConnectWise

IPSec VPN Client***

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ï¿½ Inter-operability with major IPSec VPN Gateways
ï¿½ Import Connection configuration

Certification

ï¿½ Common Criteria - EAL4+
ï¿½ ICSA Firewall - Corporate
ï¿½ Checkmark Certification
ï¿½ VPNC - Basic and AES interoperability
ï¿½ IPv6 Ready Gold Logo
ï¿½ Global Support Excellence - ITIL compliance (ISO 20000)

Hardware Specifications

ï¿½ Memory 12GB
ï¿½ Compact Flash 4GB
ï¿½ HDD 250GB or higher

Compliance

ï¿½ CE
ï¿½ FCC
ï¿½ UL

Dimensions

ï¿½ H x W x D (inches) -3.54 x 17.52 x 23.23
ï¿½ H x W x D (cms) - 9 x 44.5 x 59
ï¿½ Weight - 19kg, 41.8lbs

Power

ï¿½ Input Voltage - 90-260 VAC
ï¿½ Consumption - 258W
ï¿½ Total Heat Dissipation (BTU) - 881
ï¿½ Redundant Power Supply - Yes

Environmental

ï¿½ Operating Temperature - 0 to 40 °C
ï¿½ Storage Temperature - 0 to 70 °C
ï¿½ Relative Humidity (Non condensing) - 10 to 90%

Please Enquire