

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 (GbE Copper/GbE Fiber/10GbE Fiber)	8 / 8 / 4
Console Ports (RJ45)	1
Configurable Internal/DMZ/WAN Ports	Yes
USB Ports	2

System Performance**

Firewall Throughput (UDP) (Mbps)	32,000
Firewall Throughput (TCP) (Mbps)	26,000
New sessions/second	265,000
Concurrent sessions	7,500,000
IPSec VPN Throughput (Mbps)	4,500
No. of IPSec Tunnels	4,000
SSL VPN Throughput (Mbps)	1,050
WAF Protected Throughput (Mbps)	1,350
Anti-Virus Throughput (Mbps)	5,000
IPS Throughput (Mbps)	12,500
NGFW Throughput (Mbps)***	6,000
Fully Protected Throughput (Mbps)****	3,600

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
- Application (Layer 7) Control and Visibility
- Access Scheduling
- Policy based Source and Destination NAT
- H.323, SIP NAT Traversal
- 802.1q VLAN Support
- DoS and DDoS Attack prevention
- MAC and IP-MAC filtering and Spoof prevention

Application Filtering

- Inbuilt Application Category Database
- 2,000+ Applications Supported
- Schedule-based access control
- Block
 - Proxy and Tunnel
 - File Transfer
 - Social Networking
 - 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)

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

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)
- UI Color Styler
- Command Line Interface (Serial, SSH, Telnet)
- SNMP (v1, v2, v3)
- Multi-lingual support: English, Chinese, Hindi, French, Japanese
- Cyberoam Central Console (Optional)
- Network Time Protocol Support

User Authentication

- 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 attacks
- Syslog support
- Log Viewer - Firewall, IPS, Web filter, WAF, Anti Virus, Anti 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 Dashboard
- 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, Serpent
- 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, 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 resources
- 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
- 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
- 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
- Active-Passive with State 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	4GB
HDD	250GB or higher

Compliance

- CE
- FCC
- UL

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%

*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.

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