



# Specification

## Interfaces

Copper GbE Ports	8
Configurable Internal/DMZ/WAN Ports	Yes
Console Ports (RJ45)	1
USB Ports	2
Hardware Bypass Segment*	2

## System Performance\*

Firewall Throughput (UDP) (Mbps)	4,500
Firewall Throughput (TCP) (Mbps)	3,500
New sessions/second	45,000
Concurrent sessions	1,250,000
IPSec VPN Throughput (Mbps)	450
No. of IPSec Tunnels	250
SSL VPN Throughput (Mbps)	400
WAF Protected Throughput (Mbps)	500
Anti-Virus Throughput (Mbps)	1,400
IPS Throughput (Mbps)	1,200
UTM Throughput (Mbps)	750

## Stateful Inspection Firewall

- Layer 8 (User - Identity) Firewall
- Multiple Security Zones
- Access Control Criteria (ACC) - User - Identity, Source & Destination Zone, MAC and IP address, Service
- UTM policies - IPS, Web Filtering, Application Filtering, Anti-Virus, Anti-Spam and Bandwidth Management
- Layer 7 (Application) Control & Visibility
- Access Scheduling
- Policy based Source & Destination NAT
- H.323, SIP NAT Traversal
- 802.1q VLAN Support
- DoS & DDoS Attack prevention
- MAC & IP-MAC filtering and Spoof prevention

## Gateway Anti-Virus & Anti-Spyware

- Virus, Worm, Trojan: Detection & 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

## Intrusion Prevention System

- 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

## Web Filtering

- Inbuilt Web Category Database
- URL, keyword, File type block
- Categories: Default(82+), 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

## Application Filtering

- Inbuilt Application Category Database
- 11+ Application Categories: e.g. Gaming, IM, P2P
- Schedule-based access control
- Block
  - P2P applications e.g. Skype
  - Anonymous proxies e.g. Ultra surf
  - "Phone home" activities

- 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

## 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
- Support for HTTP 0.9/1.0/1.1
- Extensive Logging & Reporting

## 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 & Spoke VPN support

## SSL VPN

- TCP & UDP Tunneling
- Authentication - Active Directory, LDAP, RADIUS, Cyberoam
- Multi-layered Client Authentication - Certificate, Username/Password
- User & 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

## Instant Messaging (IM) Management

- Yahoo and Windows Live Messenger
- Virus Scanning for IM traffic
- Allow/Block Login
- Allow/Block File Transfer
- Allow/Block Webcam
- Allow/Block one-to-one/group chat
- Content-based blocking
- IM activities Log
- Archive files transferred
- Custom Alerts

## Wireless WAN

- USB port 3G/4G and Wimax Support
- Primary WAN link
- WAN Backup link

## Bandwidth Management

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

## 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

## Networking

- Failover - Automated Failover/Failback, Multi-WAN failover, 3GModem 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& 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

## Administration & System Management

- Web-based configuration wizard
- Role-based access control
- Firmware Upgrades via Web UI
- Web 2.0 compliant UI (HTTIPS)
- UI Color Styler
- Command Line Interface (Serial, SSH, Telnet)
- SNMP (v1, v2c, v3)
- Multi-lingual support: Chinese, Hindi, French, Korean
- 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 Terminal Services and Citrix XenApp - Novell eDirectory
- RSA SecurID support
- External Authentication - Users and Administrators
- User/MAC Binding
- Multiple Authentication servers

## Logging/Monitoring

- Graphical real-time and historical monitoring
- Email notification of reports, gateway status, viruses and attacks
- Syslog support
- Log Viewer - Firewall, IPS, Web filter, Anti Virus, Anti Spam, Authentication, System and Admin Events

## On-Appliance Cyberoam-iView Reporting

- Integrated Web-based Reporting tool - Cyberoam-iView
- 1000+ drilldown reports
- 45+ Compliance Reports
- Historical and Real-time reports
- Multiple Dashboards
- Username, Host, Email ID specific Monitoring Dashboard
- Reports - Security, Virus, Spam, Traffic, Policy violations, VPN, Search Engine keywords
- Multi-format reports - tabular, graphical
- Exportable formats - PDF, Excel
- Automated Report Scheduling



## 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 RC1 32/64-bit
- Import Connection configuration

## Certification

- Common Criteria - EAL4+
- ICSA Firewall - Corporate
- Checkmark UTM Level 5 Certification
- VPNC - Basic and AES interoperability
- "IPv6 Ready" Gold Logo

## Hardware Specifications

Memory	2GB
Compact Flash	4GB
HDD	250GB or higher

## Compliance

- CE
- FCC
- UL

## Dimensions

H x W x D (inches)	1.7 x 14.6 x 17.3
H x W x D (cms)	4.4 X 37.2 X 44
Weight	5 kg, 11.02 lbs

## Power

Input Voltage	100-240 VAC
Consumption	99W
Total Heat Dissipation (BTU)	338

## Environmental

Operating Temperature	0 to 40 °C
Storage Temperature	-25 to 75 °C
Relative Humidity (Non condensing)	10 to 90%

\*If Enabled, will bypass traffic only in case of power failure. \*\*Additional Purchase Required.

\*Antivirus, IPS and UTM performance is measured based on HTTP traffic as per RFC 3511 guidelines. Actual performance may vary depending on the real network traffic environments.

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