Cyberoam CR35wi | Comprehensive Network Security with Wi-Fi Access Point for Small and Remote Offices

Cyberoam®
Unified Threat Management

> *Gartner positions Cyberoam UTM as a "Visionary" in Magic Quadrant for SMB Multifunction Firewalls*
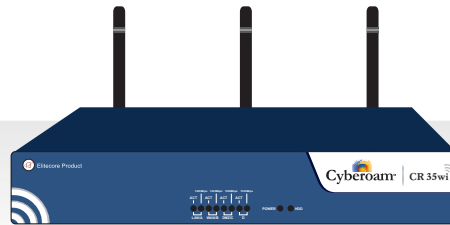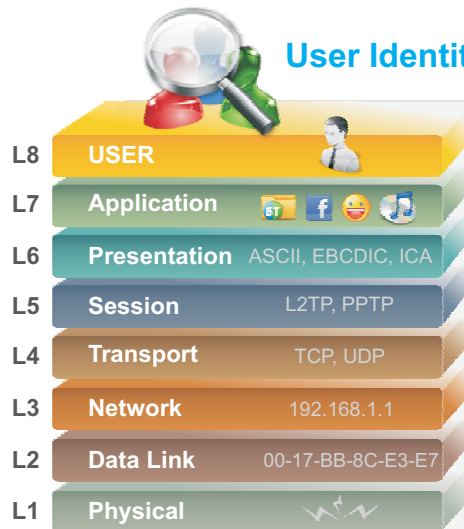
CR35wi offers high performance security over WLAN to Small Office-Home Office (SOHO) and Remote Office Branch Office (ROBO) users. It supports 802.11n/b/g wireless standards. Combined with security over wired networks offered by its range of UTM appliances, Cyberoam enables organizations to overcome the physical limitations of securely accessing network resources and offers more user flexibility, user productivity and lower network ownership costs.

Cyberoam's Layer 8 technology that treats user-identity as the 8th Layer or the HUMAN layer in the protocol stack, works even in WLAN environments, to allow identity-based security policies in dynamic IP environment.

Insecure WLANs are easily susceptible to unauthorized intrusion by outsiders and malware attacks. Cyberoam extends its set of security features over wired networks   Firewall, VPN, Anti-Virus/Anti-Spyware, Intrusion Prevention System, Content Filtering, Bandwidth Management and Multiple Link Management over WLAN, securing organizations from threats of data leakage and malware attacks.

User Identity-based Security Policy Controls

L8	USER	
L7	Application	
L6	Presentation	ASCII, EBCDIC, ICA
L5	Session	L2TP, PPTP
L4	Transport	TCP, UDP
L3	Network	192.168.1.1
L2	Data Link	00-17-BB-8C-E3-E7
L1	Physical	

Cyberoam's Layer 8 Technology treats "User Identity" as the 8th Layer in the protocol stack

Cyberoam UTM offers security across Layer 2-Layer 8 using Identity-based policies

Cyberoam UTM features assure Security, Connectivity, Productivity

Security

Network Security
- Firewall
- Intrusion Prevention System
- Wireless security

Content Security
- Anti-Virus/Anti-Spyware
- Anti-Spam
- HTTPS/SSL Content Security

Administrative Security
- Next-Gen UI
- iView- Logging & Reporting

Connectivity

Business Continuity
- Multiple Link Management
- High Availability

Network Availability
- VPN
- 3G/WiMAX Connectivity

Future-ready Connectivity
- "IPv6 Ready" Gold Logo

Productivity

Employee Productivity
- Content Filtering
- Instant Messaging Archiving & Controls

IT Resource Optimization
- Bandwidth Management
- Traffic Discovery
- Application Layer 7 Management

Administrator Productivity
- Next-Gen UI

Specification

Interfaces

10/100 Ethernet Ports Configurable	4
Internal/DMZ/WAN Ports	Yes
Console Ports (RJ45/DB9)	1
USB Ports	1

Built-in Wireless LAN

Wireless Standards	IEEE 802.11 n/b/g (WEP, WPA, WPA2, 802.11i , TKIP, AES, PSK, 802.1x EAP)
Antenna	Detachable 2x3 MIMO
Access Points	Upto 8 bssid
Transmit Power (EIRP)	11n HT40 : +17dBm 11b CCK: +19dBm 11g OFDM:+17dBm
Receiver Sensitivity	-65dBm at 300Mbps -70dBm at 54Mbps 10% PER -86dBm at 11Mbps 8% PER
Frequency Range	USA (FCC): 2.412GHz ~ 2.462GHz Europe (ETSI): 2.412GHz ~ 2.472 Ghz Japan (TELEC): 2.412GHz ~ 2.483GHz
Number of Selectable Channels	USA (FCC) - 11 channels, EU (ETSI) / Japan (TELEC) - 13 channels
Data Rate	802.11n: up to 300Mbps, 802.11b: 1, 2, 5,5, 11Mbps, 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbp

System Performance*

Firewall throughput (UDP)	750 (Mbps)
Firewall throughput (TCP)	500 (Mbps)
New sessions/second	5,500
Concurrent sessions	175,000
168-bit 3DES/AES throughput	50/80 (Mbps)
Anti-Virus throughput	125 (Mbps)
IPS throughput	150 (Mbps)
UTM throughput	90 (Mbps)

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
- Scan and deliver by file size
- Block by file types
- Add disclaimer/signature

Gateway Anti-Spam
- 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
- IP Reputation-based Spam filtering

Intrusion Prevention System
- Signatures: Default (3000+), Custom
- IPS Policies: Multiple, Custom
- User-based policy creation

- Automatic real-time updates from CRProtect networks
- Protocol Anomaly Detection
- DDoS attack prevention

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
- Application Categories: e.g. Gaming, IM, P2P, Proxy:11+
- Schedule-based access control
- Block
    - P2P applications e.g. Skype
    - Anonymous proxies e.g. Ultra surf
    - "Phone home" activities
    - Keylogger
- Layer 7 (Applications) & Layer 8 (User - Identity) Visibility

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

SSLVPN
- TCP&UDPTunneling
- 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 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

Administration & 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, v2c, v3)
- Multi-lingual support: Chinese, Hindi, French, Korean
- Cyberoam Central Console (Optional)
- NTP 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
- 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, viruses and attacks
- Syslog support
- Log Viewer - 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, Spam, Virus, 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
- ICSA Firewall - Corporate
- Checkmark UTM Level 5 Certification
- VPNC - Basic and AES interoperability
- "IPv6 Ready" Gold Logo

Compliance
- CE
- FCC

Dimensions

H x W x D (inches)	1.7 x 6 x 9.1
H x W x D (cms)	4.4 x 15.3 x 23.2
Weight	2.3kg, 5.07 lbs

Power

Input Voltage	100-240 VAC
Consumption	47.8W
Total Heat Dissipation (BTU)	163

Environmental

Operating Temperature	5 to 40 °C
Storage Temperature	0 to 75 °C
Relative Humidity (Non condensing)	10 to 90%

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*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.

**Additional purchase required. #3G card and modem details are not included. See http://www.cyberoam.com for supported USB devices.

Cyberoam®
Unified Threat Management

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Elitecore Product