

Product Specification

UTM Content Security Gateway

CS-2001

Release 2.0

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Change History:

Revision	Date	Author	Change List
Version 1.0	2010/11/25	Albert Chen	Initial release
Version 2.0	2012/4/16	Frank Tsai	更新 IPC 平台

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1. PRODUCT DESCRIPTION

The innovation of the Internet has created a tremendous worldwide opportunities for e-business and information sharing, but network security problems also come out. So the request of security will be the primary concerned for the enterprises. The new generation of CS series, PLANET UTM Content Security Gateway CS-2001, a special designed of security gateway, can adopt Heuristics Analysis to filter spam and virus mail, and the auto-training system can raise identified rate of spam. The built-in 500GB Hard Disk can be stored the spam mail in quarantine. The Anti-virus application supports double virus scan engines - Clam and Sophos which can detect viruses, worms and other threats from transferring E-mail and Internet network. It also provides the mail report by Daily, Weekly, Monthly and Yearly and helps the administrators monitor the mail status easily.



The CS-2001 can filter spam and virus mail. Moreover, the IDP and firewall functions can defense hackers and blaster attacks from Internet or Intranet. The complete function in one device can provide security solutions and the secure environment better than ever.

The CS-2001 not only supports the fully security features, such as Content Blocking to block specific URL, Scripts, IM/P2P program, Authentication, IPSec, PPTP VPN server/Client, SSL VPN, QoS, High Availability and Inbound Load-Balancing etc., but also provides the higher performance. All Gigabit Ethernet interfaces provide the higher speeds for your network applications. Four interfaces allow users defining by themselves, the multiple wan access for CS-2001 provides more reliabilities internet service and load sharing, which supports Outbound/Inbound load balance and WAN fail-over feature. Furthermore, the VPN Trunk provides VPN fail-over and load balance features, that can offer a VPN redundant mechanism to keep the VPN connection being on line.

2. PRODUCT FEATURES

- ◆ **All Gigabit Interface:** The CS-2001 supports all Gigabit Ethernet interfaces, it provides the higher performance for your network environment.
- ◆ **Custom Network Interfaces and Groups:** Multiple network interfaces are available for defining as LAN, WAN, DMZ or other network groups. The CS-2001 supports vlan function, which can tag a vlan id to manage each subnet with its grouping feature, which gives an extra layer of protection and flexible for installing into your internal network.
- ◆ **Anti-Spam Filtering:** Multiple defense layers (Spam Fingerprint, Blacklist & Whitelist, Bayesian Filtering, Spam Signature, Graylist, Checking sender account and IP address in RBL), and Heuristics Analysis to block over 95% spam mail. Customizable notification options and spam mail report are provided for administrator. Varied actions toward spam mail include: Delete, Deliver, Forward and Store in the quarantine. Built-in auto-training system to rise identify rate of spam mail substantially.
- ◆ **Anti-Virus Protection:** Built-in double virus scan engines can detect viruses, worms, and other threats from email transfer. Scan mission-critical content protocols-SMTP, POP3 in real time as traffic enters the network to provide maximum protection. Customizable notification options and virus mail report are provided for administrator. Varied actions toward spam mail include: Delete, Deliver, Forward and Store in the quarantine.
- ◆ **Anti-Virus for HTTP, FTP, P2P, IM, NetBIOS:** The CS-2001 not only can provide Anti-virus feature for mail, it also can filter the virus from varied protocol. The virus pattern can be updated automatically or manually.

- ◆ **VPN Connectivity:** The CS-2001 supports several VPN features -- IPSec VPN, SSL VPN and PPTP server/client. The VPN Tunnel with DES / 3DES / AES encryption and SHA-1 / MD5 authentication that provide secured network traffic over public Internet. VPN Wizard can help administrator to have an easy way to configure VPN settings.
- ◆ **SSL VPN:** SSL VPN does not need to install any software or hardware. Only need to use the web browser and easily establish VPN connections for transferring the data by SSL encryption.
- ◆ **VPN Trunk:** VPN trunk function provides VPN load balance and VPN fail-over feature to keep the VPN connection more reliable.
- ◆ **Content Filtering:** The CS-2001 can block network connection based on **URLs, Scripts** (The Pop-up, Java Applet, cookies and Active X), **P2P** (eDonkey, Bit Torrent, WinMX and more), **Instant Messaging** (MSN, Yahoo Messenger, ICQ, QQ, Skype and Google Talk) and **Download / Upload**. If there are new updated version of P2P or IM software in client side, CS-2001 will detect the difference and update the Content Filtering pattern to renew the filtering mechanism.
- ◆ **IM Recording:** Built-in IM Recoding function can help you record and monitor the use of MSN and QQ messenger. This can prevent productivity losses from personal use and confidentiality breaches from information leaks.
- ◆ **IDP:** Built-in IDP function can detect and prevent the Hacker attacks, Anomaly Flow, and Signatures from Internet. CS-2001 provides three kinds of the Signature to complete the intrusion detection system, user can select to configure "**Anomaly**", "**Pre-defined**" and "**Custom**" according to the current environment's request.
- ◆ **Policy-based Firewall:** The built-in policy-based firewall prevent many known hacker attack including SYN attack, ICMP flood, UDP flood, Ping of Death, etc. The access control function allowed only specified WAN or LAN users to use only allowed network services on specified time.
- ◆ **QoS:** Network packets can be classified based on IP address, IP subnet and TCP/UDP port number and give guarantee and maximum bandwidth with three levels of priority.
- ◆ **User Authentication:** Web-based authentication allows users to be authenticated by web browser. User database can be configured on the devices; CS-2001 also supports the authenticated database through external RADIUS, POP3 and LDAP server.
- ◆ **WAN Backup:** The CS-2001 can monitor each WAN link status and automatically activate backup links when a failure is detected. The detection is based on the configurable target Internet addresses.
- ◆ **Outbound Load Balancing:** The network sessions are assigned based on the user configurable load balancing mode, including "Auto", "Round-Robin", "By Traffic", "By Session" and "By Packet". User can also configure which IP or TCP/UDP type of traffic use which WAN port to connect.
- ◆ **Inbound Load Balancing:** The CS-2001 provides the Inbound Load Balancing for enterprise's internal server. The Inbound Load Balancing can reduce the server loading and system crash risks, in order to improve the server working efficiency.
- ◆ **Multiple NAT:** Multiple NAT allows local port to set multiple subnet works and connect to the Internet through different WAN IP addresses.
- ◆ **High Availability:** The CS-2001 provides High Availability function, and the redundant system will avoid influencing the network traffic because of the device crash down.

3. PRODUCT SPECIFICATION

3.1 MAIN COMPONENT

CPU: Intel Celeron 1.5GHz

Flash: 256M bytes

RAM: 1G bytes

H.D: 500G

3.2 FUNCTIONAL SPECIFICATION

Product	UTM Content Security Gateway
Model	CS-2001
Hardware	
Ethernet	Undefined Ethernet port 4 x 10/100/1000Base-T RJ-45, Auto-negotiation, Auto MDI / MDI-X
Console	1 x RS-232 (9600, 8, N, 1)
Hard Disk	500 GB
H/W Watch-Dog	Auto reboot when detecting system fail
Software	
Management	Web (English, Traditional Chinese, Simplified Chinese)
Operation Mode	DMZ_Transparent, DMZ_NAT, NAT
Routing Protocol	Static Route, RIPv2, OSPF, BGP
Concurrent Sessions	1,000,000
New session per sec.	10,000
Email Capacity per Day (mail size 1098 bytes)	2,000,000
Firewall Performance	1.6Gbps incoming and outgoing
SSL VPN Performance	80Mbps
IPSec VPN Performance (With 3DES)	100Mbps
Firewall Security	Policy-based access control Stateful Packet Inspection (SPI) NAT / NATP
Multiple subnet	Max supports 64 multiple subnets. With VLAN id feature can assign multiple subnets VLAN trunk support
VPN Tunnels (Connection/Configure)	200 / 1000
VPN Function	IPSec, SSL VPN, PPTP server and client DES, 3DES and AES encrypting SHA-1 / MD5 authentication algorithm Remote access VPN (Client-to-Site) and Site to Site VPN

IM Recording	QQ/MSN Account Manager Periodic Report Scheduling /Send report to e-mail IM Conversation logs and statistics chart
Content Filtering	URL Blocking Script Blocking (Popup, Java Applet, cookies and Active X) IM blocking (MSN, Yahoo Messenger, ICQ, QQ, Skype, Google Talk and more) P2P blocking (eDonkey, Bit Torrent, WinMX and more) Download and Upload blocking
IDP	Anti-Virus for HTTP, FTP, P2P, IM, NetBIOS Automatic or manual update virus and signature database Anomaly: Syn Flood, UDP Flood, ICMP Flood and more Pre-defined: Backdoor, DDoS, DoS, Exploit, NetBIOS and Spyware Custom: User defined based on TCP, UDP, ICMP or IP protocol Yearly, Monthly, Weekly and Daily Report support
Anti-Spam	Inbound scanning for external and internal Mail Server Support Spam Fingerprint, Bayesian, Signature, RBL and Graylist filtering, checking sender account and IP to filter the spam mail Black list and white list support auto training system Action of spam mail: Delete, Deliver to the recipient, forward to an account and store in quarantine Yearly, Monthly, Weekly and Daily Report support
QoS	Policy-based bandwidth management Guarantee and maximum bandwidth with 3 priority levels Classify traffics based on IP, IP subnet, TCP/UDP port
User Authentication	Built-in user database with up to 500 entries Support local database, RADIUS, POP3 and LDAP authentication
Logs	Traffic Log, Event Log and Connection Log Log can be saved from web, backup by e-mail or syslog server
Accounting Report	Record Inbound and Outbound traffic's utilization by Source IP, Destination IP and Service Backup Accounting Report for Outbound and Inbound traffic
Statistics	WAN Ports traffic statistic and policies statistic with graph display
Others	Dynamic DNS NTP support Multiple Server load balancing Outbound / Inbound load balancing High Availability SNMP v1, v2, v3

3.3 PHYSICAL SPECIFICATION

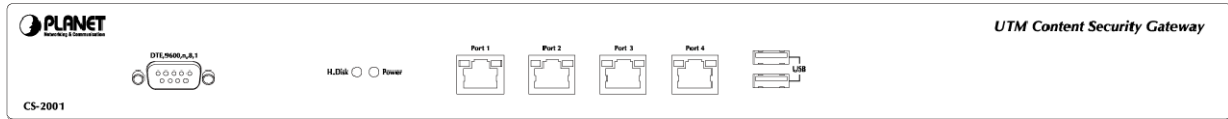
Dimensions

430 x 44 x 248 mm

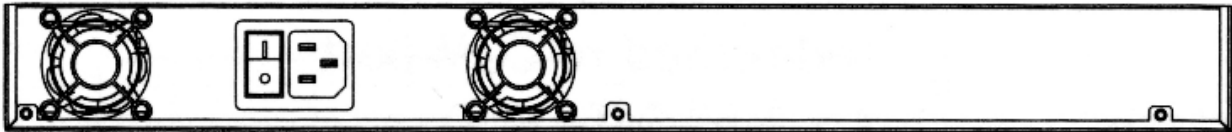
Weight

3.8 kg

Front View



Rear View



LED / Port definition

LED / Port	Description		
PWR	Power is supplied to this device.		
H.Disk	Blinks to indicate this device is being accessed by the Hard Disk.		
Console (9600, 8, N, 1)	Connect this serial port for checking network interface settings and can reset to factory settings.		
WAN LAN DMZ	LED1	Orange	Steady on indicates the port is connected to another network device. Blink indicates there is traffic on the port
	LED2	Orange	Steady on indicates the port is connected at 1000Mbps speed
		Green	Steady on indicates the port is connected at 100Mbps speed
		Off	The LED off to indicate the port is connected at 10Mbps speed

3.4 ENVIRONMENTAL SPECIFICATION

Operating

Temperature: 0 ~ 45°C

Relative Humidity: 10 ~ 90% (non-condensing)

Storage

Temperature: -20 ~ 70°C

Relative Humidity: 10% ~ 95% (non-condensing)

3.5 POWER SPECIFICATION

Power Requirement: 100~240 VAC, 50~60 Hz, 3A

Power Consumption: Maximum 70 Watts

3.6 REGULATORY COMPLIANCE

FCC, CE

3.7 RELIABILITY

MTBF > 50,000Hrs @25degree C MIL-STD-781C

3.8 BASIC PACKAGING

CS-2001 x 1

Quick Installation Guide x 1

User's Manual CD x 1

Power cord x 1

Console cable x 1

Cat6 Cable x 4

Rack-mount ear x 2

Screw Package x 1

Mat x 4

3.9 PACKAGING INFORMATION

- Dimension
542 x 503 x 214 mm (W x D x H)
- Weight
7.5 kg (gross weight)