

Cell IPS-100E

Intrusion Prevention System



Overview

Cell IPS-100E, an enhanced version of Cell Intrusion Prevention System (IPS) product series, is a network security appliance with unique network processor/ASIC design, Cell's proprietary Custom Real-time Intelligent Operation System (CRIOS) and Intelligent Packet Processing Engine (IPPE) developed and embedded into a hardware appliance system. It supports high speed performance, deep packet inspection engine, multiple packet matching and high compression ratio for inspection code. This IPS appliance can offer a complete set of network security protection and Internet application management. Cell IPS-100E has mainly four types of security engines to support the multi-security protection features. The engines include Gateway Anti-Virus (AV) Engine, to scan the incoming and outgoing network traffic and block malicious threats before they can enter your network; Intrusion Detection and Prevention (IDP) Engine; Internet Applications Management (IAM) and Peer to Peer (P2P) management Engine, Web Filtering (WF) Engine such as anti-malicious URL and its protocol filtering.

Cell IPS-100E with 100Mbps performance is designed to protect the Small Office Home Office (SOHO)/or Small & Medium Enterprise (SME) network from a wide variety of network threats. Cell IPS supports pre-defined signature rules with on-line Signatures Update (SU)/Knowledge-Base (KB) automatically from Cell Security Service Centre (SSC) to defense against any latest threats.

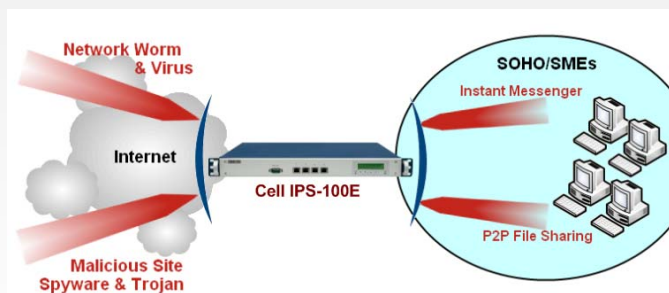
With multiple of Cell IPS deploying in a large or multi-national network infrastructure, Cell NetsVision, iCMS-IPS can be deployed as a centralized management platform to manage all Cell IPS devices across networks or regions. It can also be designed to deploy at any Managed Security Service Provider (MSSP) or Security Operation Centre (SOC) as a managed IPS security service to end customer to offer the security monitoring, logs/forensic analysis and 24x7 non-stop protection services for customers.

Features

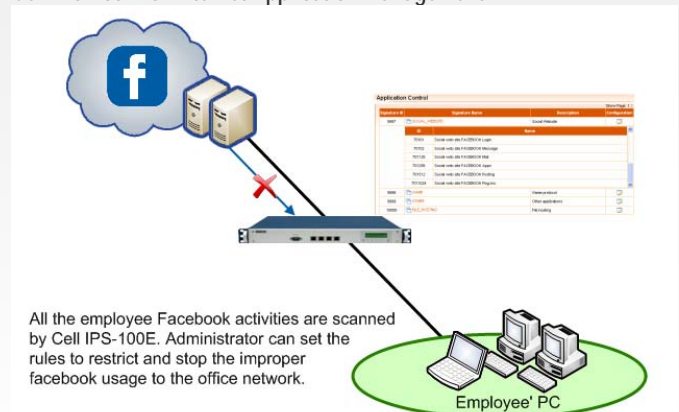
- Enhanced IPS Model with Complete Security Protection and four Security Engines – AV, IDP, IAM and WF
- Robust Performance of Cell CRIOS & IPPE Engine with Network Processor
- Automatic Push On-line SU/KB from Cell SSC
- Standalone (Cell Web-based GUI) or 3-Tier of Centralized Management (Cell NetsVision, iCMS-IPS)
- Powerful System Administration
- Technology Proven for MSSP/SOC or Service Providers for Managed IPS Service

Application

Cell IPS-100E Application



Cell IPS-100E for Internet Application Management



Hardware Specification

Product Models

Hardware Appliance

Hardware System

Physical Interfaces

System Console

Mode of Operation

LCD Display & Control

Build-in Database/Reporting/Analysis

Security Engines

Anti-Virus Scanning & Blocking (AV)

Intrusion Detection & Prevention (IDP)

Internet Applications Management (IAM)

Web Filtering (WF)

System Performance

Dimension

Weight

Power Supply Voltage

Power Input

Operation Temp

Operation Humidity

Standard Regulatory

Cell IPS-100E



1U Rack-mounted
Intel based platform with NP/ASIC
4 Ethernet 10/100 Base-T Ports

Serial console port RS232 (DB9)

Bridging

Yes

Yes

AV, IDP, IAM, WF

With 13000 signatures

With 2500 signatures

With 250 signatures

With 9000 signatures

Max 100Mbps

350,000 sessions

430 x 44 x 369 mm

4.5 Kg

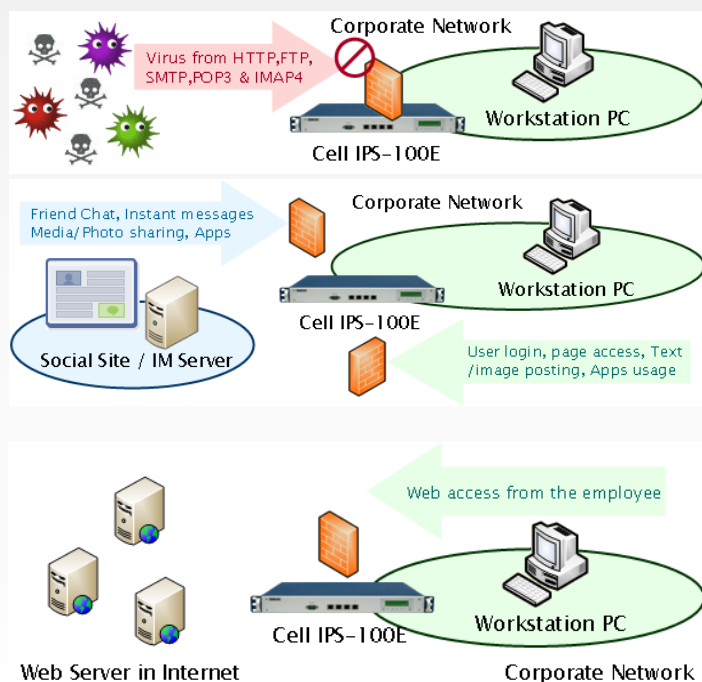
Full-range ATX 250W

90-264VAC, 47/63 Hz

0 to 40 degree

5-85%@40C

FCC, CE, RoHS



System Specification

System Operation System

- Cell CRIOS (Custom Real-time Intelligent OS)
- Cell IPPE (Intelligent Packet Processing Engine)
- Optional Network Processor/ASIC

Mode of operation

- Bridging (In-line)

Signature/KnowledgeBase (KB) Update

- Manual, automatic or pre-schedule by Cell SSC

Language Supported

- English, Trad & Sim Chinese, Japanese*

System Administration/Diagnostic

- SSL Web-based GUI
- System diagnostic (via serial console port and LCD)
- Secure Remote Access through SSH
- Access Control Lists
- 3 User Administration Level CLI

Anti-Virus (AV) Detection & Blocking

- Packet-based Gateway Anti-Virus Scanning
- Scan HTTP,FTP,SMTP,POP3 & IMAP4 Protocols
- Packet-based Decoding Base64 UUencode QP
- No File Size Limitation
- Support Zip, Gzip and Rar Decompression
- Detect Virus in Multi-Packets

Intrusion Detection & Prevention (IDP)

- Packet-based Intrusion Scanning
- Traffic Anomaly: Scanning Detection and Flood Protection
- Protocol Anomaly: HTTP/ICMP/TCP/UDP

Internet Applications Management (IAM)

- Up-To-Date IM/P2P Access Control
- Support public IM clients: AIM, ICQ, Yahoo Messenger, Window Live Messenger, and web-based clients
- Support public P2P application: eDonkey, BitTorrent, EZPeer, Thunder, PPLive, QQLive, FastTrack, Kuro, Gnutella, Soulseek, Skype and other P2P applications
- Scan File transfers over IM/P2P
- Application Protocol Detection and Protection

Web Filtering (WF)

- Website Hijacking Prevention
- Concise URL Malicious Website Database
- URL filtering by Host Name or Host + Path
- Exempt List (Blacklist and White list)
- Gateway Spyware Protection

Database Management

- Built-in database – purge, export and overwrite
- Policy backup and restore*

Report Management

- Build in alert reporting and analysis tools
- Bandwidth reporting
- Export to PDF, Excel, HTML and others

Interface to SIM/SEM Platform

- SNMP v2 Trap
- UDP syslog messages
- Email notification
- Standard Interface to third party of Security Information Management (SIM) Platform

Cell IPS Centralized Management

- With Cell NetsVision iCMS-IPS platform
- 3-tier network deployment
- Support multi-ICMS Commanders in a network and managed by a single iCMS Manager
- Support external storage system for data storage, back up or external database

* in product roadmap

Cell NetsVision, iCMS-IPS Specification

Cell intelligent Cell Management System for Cell IPS Products (iCMS-IPS) is the complete, comprehensive and centralized network security management System platform for operation, administration and management (OAM) of Cell IPS products in highly performance and scalability purpose. This iCMS-IPS provides mainly for network visualization, fault monitoring, performance, configuration and security managements for service providers. With Cell iCMS-IPS centralized security management, all IPS products with all security logs/events can be remotely monitored at the SOC (Security Operation Centre) for security monitoring, devices configuration, database management, fault and alarm management. Please refer to Cell NetsVision iCMS-IPS datasheet for specification and ordering information.

About Cell Technology

Cell Technology headquartered at Hong Kong SAR, a network & security technology provider specializes in design, develop and deliver innovative and intelligent IP packet processing platform into software and hardware appliances. Cell product solutions including Cell IPS, Janus, TMS, NetsVision and NetsAccess address the business needs that optimize the IP network performance, secure the network security and resiliency, and manage the quality of IP services. For more information, please visit www.cell-technology.net.

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