DPtech IPS2000 Series Intrusion Prevention System

DP tech
Hangzhou DPtech Technologies Co., Ltd.

Overview

With the rapid development of network, application layer attacks emerge endlessly, such as worms, Trojan horses, spyware, DDoS attacks, bandwidth abuse and etc. Traditional protection based on network layer can only implement checking and rule matching to packet header, yet a large number of application-layer attacks are hidden in normal packets, even across several packets, so analysis on only a single packet header is meaningless. DPtech IPS2000 series intrusion prevention system is a security product that provides real-time defense against application-layer threats through deep inspection on packets.

DPtech IPS2000 is currently the world's highest performance IPS product, which integrates professional virus library with application protocol library based on signature library, and is an integrated application-layer deep protection platform against threats such as system threats, protocol threats, viruses, worms, DDoS attacks, SQL injection, spyware, malicious attacks, DoS service and etc. IPS2000 is easy to deploy, plug and play. It is an optimal choice for application layer security.

Series

The following are the DPtech IPS series product's portfolio.

| IPS2000-Blade | IPS2000-TM-E | IPS2000-TS-N |

| IPS2000-GE-N | IPS2000-GA-E | IPS2000-GS-E |

| IPS2000-ME-N | IPS2000-MA-N | IPS2000-MS-N | IPS2000-MC-N |

Features

Industry's highest application-layer protection performance
- DPtech IPS2000 is based on DPtech unique APP-X hardware platform and can provide the world's

highest application-layer protection performance, with performance uncompromised by the size of signature library or number of policies and all security policies matched in one time. No performance degradation or network latency will be caused even the signature library grows.

Unique application identification and detection technology

- Traditional IPS detects known attacks by defining their features, which is easy to achieve but is likely to cause high false positives. DPtech IPS2000 series of intrusion prevention system adopts specialized APP-ID application identification and detection technology to define unified attack features through analyzing principle of attacks, without compromising by attack variants, and intercepts in advance intrusion threats or attacking network flow in application layer with very low false positives and false negatives.

APP-ID application and threats signature library

- DPtech has a specialized signature library team who tracks state-of–the-art security technologies at home and abroad in real time, and provides signature library integrating vulnerability library, virus library and protocol library, which is fully compatible with CVE and can timely and effectively defense all kinds of new application-layer cyber attacks.

Rich network features

- DPtech IPS2000 is based on ConPlat platform, with extensive network features, and can work well in complex network environments such as IPv6/IPv4 dual stack, MPLS and etc. It possesses various network features of next-generation data network.

Efficient and comprehensive DDoS attacks protection

- Effectively realize efficient and comprehensive attacks protection against various DDoS attacks, such as SYN Flood, UDP Flood, ICMP Flood, TCP Flood, DNS Flood, HTTP Get/CC and etc.

Professional DNS protection capability

- In response to increasingly severe DNS threats, DPtech IPS2000 provides professional DNS attacks protection capability through DNS DDoS attacks defense, DNS system vulnerability protection, large capacity DNS cache and etc.

Multiple high reliability security mechanisms

- All security devices provided by the solution possess multiple high availability security mechanisms, which support critical component redundancy and hot-plug, support Bypass application and PFP power-fail protection, and can achieve real seamless switch, ensure safe, stable and reliable operation of network.

Specification

Table 1 Lists the Hardware Features and Performance of DPtech IPS2000-MC, MS, MA and ME series IPS

Item	IPS2000-MC-N	IPS2000-MS-N	IPS2000-MA-N	IPS2000-ME-N
Interface	1xConsole, 8xGE, 1xUSB	1xConsole, 8xGE, 1xUSB	1xConsole, 8xGE, 1xUSB	1xConsole, 6xGE, 2xGE SFP, 1xUSB
Internal Bypass Unit	-	-	-	-
Slot	2 slots	2 slots	2 slots	1 slot
CF Card	1GB	1GB	1GB	1GB
DDR SDRAM	2GB	2GB	2GB	2GB
Dimensions (W × D × H)	430x261x44 mm	430x261x44 mm	430x261x44 mm	430x261x44 mm
Power Supply	1	1	1	2
Rated Voltage Max Current	100-240VAC; 0.5A	100-240VAC; 0.5A	100-240VAC; 0.5A	100-240VAC; 0.5A
Max Power Consumption	54 W	54 W	54 W	150 W
MTBF	36 years	36 years	36 years	36 years
Operating Temperature	0°C to 45°C (32 to 113°F)	0°C to 45°C (32 to 113°F)	0°C to 45°C (32 to 113°F)	0°C to 45°C (32 to 113°F)
Relative Humidity	10% to 95%	10% to 95%	10% to 95%	10% to 95%
Weight	3.1 kg	3.1 kg	3.1 kg	3.1 kg
Throughput	100Mbps	150Mbps	300Mbps	800Mbps
Max Policy	2,000	2,000	2,000	5,000

Table 2 Lists the Hardware Features and Performance of DPtech IPS2000-GS, GA, and GE series IPS

Item	IPS2000-GS-E	IPS2000-GA-E	IPS2000-GE-N
Interface	1xConsole, 8xGE 8Combo, 16xGE SFP, 1xUSB	1xConsole, 8xGE 8Comb, 16xGE SFP, 1xUSB	1xConsole, 14xGE, 12xGE SFP, 2x10GE, 1xUSB
Internal Bypass Unit	-	-	Copper ports only
Slot	2 Slot	2 Slot	-
CF Card	2GB	2GB	2GB
DDR SDRAM	8GB	8GB	2GB
Dimensions (W × D × H)	436x360x44 mm	436x360x44 mm	435x469x86 mm
Power Supply	2	2	2
Rated Voltage Max Current	100-240VAC; 4A	100-240VAC; 4A	100-240VAC; 4A
Max Power Consumption	150W	150W	300 W
MTBF	36 years	36 years	36 years

Item	IPS2000-GS-E	IPS2000-GA-E	IPS2000-GE-N
Operating Temperature	0°C to 45°C (32 to 113°F)	0°C to 45°C (32 to 113°F)	0°C to 45°C (32 to 113°F)
Relative Humidity	10% to 95%	10% to 95%	10% to 95%
Weight	5.6 kg	5.6 kg	10 kg
Max Policy	10,000	10,000	20,000

Table 3 Lists the Hardware Features and Performance of DPtech IPS2000-GE, TM and IPS-Blade series IPS

Item	IPS2000-TS-N	IPS2000-TM-E	IPS2000-Blade
Interface	1xConsole, 14xGE, 12xGE SFP, 2x10GE, 1xUSB	1xConsole, 2xGE, 4xGE Combo, 4x10GE, 1xUSB	1xConsole, 12xGE, 12xGE SFP, 1xUSB
Internal Bypass Unit	Copper ports only	-	-
Slot	-	4	-
CF Card	2GB	2GB	2GB
DDR SDRAM	2GB	16GB	2GB
Dimensions (W × D × H)	435x469x86 mm	436x510x88 mm	Blade Type
Power Supply	2	2	-
Rated Voltage Max Current	100-240VAC; 4A	100-240VAC; 4A	-
Max Power Consumption	300 W	300 W	-
MTBF	36 years	36 years	36 years
Operating Temperature	0°C to 45°C (32 to 113°F)	0°C to 45°C (32 to 113°F)	0°C to 45°C (32 to 113°F)
Relative Humidity	10% to 95%	10% to 95%	10% to 95%
Weight	10 kg	22kg	
Max Policy	20,000	20,000	20,000

Table 4 Lists the Feature of DPtech IPS2000 and IPS-Blade series IPS

Item	Description
Flexible Deployment	• Online mode, monitor mode, hybrid mode

Item	Description
Detection and Protection for Application-Layer Attacks	• Comprehensive L4-7 application detection and protection capability, defense attacks such as buffer overflow, worms, Trojans, viruses, SQL injection, malware, phishing, spyware, DoS/DDoS, abnormal flow and etc
Excellent Performance	• World's highest application-layer intrusion protection performance, with a maximum of over 400Gbps processing capability for a single device (*Only available in high end models)
Professional Anti-Virus Protection	• Built-in professional virus library with more than 100,000 virus libraries • Defense various types of viruses such as file type, network type and hybrid type • Support next generation virtual shelling and behavior analysis technology, detecting accurately all kinds of virus variants and unknown viruses
DDoS protection	• Defense DDoS attacks such as SYN Flood, UDP Flood, ICMP Flood, DNS Query Flood, HTTP Get Flood, CC attacks and etc
Comprehensive Signature Library	• Attack signature library ≥6000, protocol signature library ≥2500
Professional Signature Library Team	• DPtech specialized signature library team tracks state-of–the-art security technologies at home and abroad in real time, and provides signature library integrating vulnerability library, virus library and protocol library, which is fully compatible with CVE. • It is one of the main providers for Chinese national vulnerability library
Rich Network Features	• Work well in complex network environments, such as IPv4/IPv6 stack, MPLS and etc

Ordering Information

Hardware and Advanced Service List

Part Number	Model Description	Remarks
01100016	IPS2000-MC-N Host	Required
53010096	IPS2000-MC-N,1 Year Signature Update,1 Year Antivirus Update	Optional
01100017	IPS2000-MS-N Host	Required
53010097	IPS2000-MS-N,1 Year Signature Update,1 Year Antivirus Update	Optional

01100003	IPS2000-MA-N Host	Required
53010008	IPS2000-MA-N,1 Year Signature Update,1 Year Antivirus Update	Optional
01100018	IPS2000-ME-N Host	Required
53010001	IPS2000-ME-N,1 Year Signature Update,1 Year Antivirus Update	Optional
01100019	IPS2000-GS-N Host	Required
53010007	IPS2000-GS-N,1 Year Signature Update,1 Year Antivirus Update	Optional
01100077	IPS2000-GS-E Host	Required
53010383	IPS2000-GS-E,1 Year Signature Update,1 Year Antivirus Update	Optional
01100020	IPS2000-GA-N Host	Required
53010003	IPS2000-GA-N,1 Year Signature Update,1 Year Antivirus Update	Optional
01100076	IPS2000-GA-E Host	Required
53010382	IPS2000-GA-E,1 Year Signature Update,1 Year Antivirus Update	Optional
01100005	IPS2000-GE-N Host	Required
53010010	IPS2000-GE-N,1 Year Signature Update,1 Year Antivirus Update	Optional
01100006	IPS2000-TS-N Host	Required
53010011	IPS2000-TS-N,1 Year Signature Update,1 Year Antivirus Update	Optional
01100063	IPS2000-TM-E Host	Required
53010306	IPS2000-TM-E,1 Year Signature Update,1 Year Antivirus Update	Optional
01100031	IPS2000-Blade Host,1 Year Signature Update,1 Year Antivirus Update	Required
53010130	IPS-Blade,1 Year Signature Update,1 Year Antivirus Update	Optional

Interface Module and Transceivers

Part Number	Interface Module	Remarks
02010007	PFP 4-Port Fiber Protection Module, Multi mode	Optional
02010017	PFP 4-Port Fiber Protection Module, Single mode	Optional
02010005	1000BASE-SX SFP Transceiver, Multi-Mode (850nm, 550m, LC)	Optional
02010004	1000BASE-LX SFP Transceiver, Single Mode (1310nm, 10km, LC)	Optional
02000013	1000BASE-LH40 SFP Transceiver, Single Mode (1310nm, 40km, LC)	Optional
02010014	1000BASE-LH40 SFP Transceiver, Single Mode (1550nm, 40km, LC)	Optional
02010008	10GBASE-SR XFP Module, Multi-Mode (850nm, 300m, LC)	Optional

02010018	10GBASE-LR/LW XFP Module, Single Mode (1310nm, 10km, LC)	Optional
02010016	10GBASE-ER/EW XFP Module, Single Mode (1550nm, 40km, LC)	Optional
02010133 *	DPtech 4 Ports 10-GigaBit Optical Interface Module(SFP+)	Optional
02010131 *	DPtech 8 Ports GigaBit Electrical Interface Module(RJ45)	Optional
02010132 *	DPtech 8 Ports GigaBit Optical Interface Module(SFP)	Optional
02010075 *	DPtech SFP+ 10-GigaBit Optical Module,Multi-mode,(850nm,0.3km,LC)	Optional
02010078 *	DPtech SFP+ 10-GigaBit Optical Module,Single Mode,(1310nm,10km,L	Optional
02010079 *	DPtech SFP+ 10-GigaBit Optical Module,Single Mode,(1550nm,40km,L	Optional

* Only for IPS2000-TM-E.

Unified Management Center

Part Number	Model Description	Remarks
02010001	UMC Management Platform Software	Optional
53010006	UMC Intrusion Prevention System Manager License	Optional

 Note:

"Required" indicates that the item described is provided directly with the ordered host. The user does not need to purchase it specially.

"Optional" indicates the item described should be purchased by the user if it is needed.