DPtech FW1000 Series Firewall

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Overview

Firewall 1000 series provides security prevention solutions for 100Mbps, 1Gbps, and 10Gbps network environments. It adopts professional hardware and software systems, and provides highly reliable, stable and feature-rich security services. To effectively defend against various threats, this series delivers advanced state-based IPv4 and IPv6 filtering, as well as anti-attacks, zone isolation, Anti-Virus, remote access via VPN, and NAT. Because of the multi-purposed design, it reduces the number of the security devices to be implemented on the network and the complexity of management.

To ensure reliable and robust operation, the series provides redundancy for core components, and offers stateful failover which is based on links and state. This series rigidly conforms to the EU Restriction of Hazardous Substances Directive (RoHS), therefore, it is the best choice for enterprises that want to choose a green and secure firewall.

The DPtech FW1000 series Firewall are the professional network security products that DPtech designs for medium and small businesses, large-scale enterprises and ISP. The DPtech FW1000 series Firewall integrate seamlessly the powerful security defense functions, professional VPN services and intelligent network features on one single hardware platform. The series products can provide extensive and in-depth security protection and security connection functions. In addition, they can reduce the Total Cost Ownership (TCO) and the deployment complexity related to security. They are an ideal option of network security solution. They have become the solid foundation of the IP self-adaptive security network.

The DPtech FW1000 series Firewall are new generation carrier-class firewall equipment of DPtech oriented to medium and small businesses, large-scale enterprises and ISP. The DPtech FW1000 series Firewall adopt the state-of-the-art hardware platform and architecture, achieving a leapfrog breakthrough of the firewall performance. It is able to support 24-port Gigabit Ethernet and 2-port 10Gigabit interfaces, which satisfies the requirements of carrier-class applications.

The products support such functions as external attack defense, intranet security, traffic policing, mail filtering, web page filtering and application layer filtering, effectively ensuring network security. It adopts state detecting technology, to detect the connectivity and abnormal commands. It provides multiple intelligent analyses and management means, supports mail alarm and multiple logs, and provides network management monitoring to assist the network administrator to complete network security management. It supports multiple VPN services, for example, GRE, L2TP and IPSec VPN, and is able to construct multiple forms of VPNs. It provides the basic routing capability, and supports RIP / OSPF / BGP / routing policy and policy routing. It supports diverse QoS features.

The DPtech FW1000 series Firewall takes full consideration of the requirements on high reliability by network applications. The service interface card supports hot swapping to fully satisfy the requirements on network

maintenance, upgrade, and optimization. It supports dual-system state hot backup, and the Active/Active and Active/Passive work modes. It provides the temperature detecting function within the internal environment of the chassis, and supports the unified management by UMC (Unified Management Center).

Series

DPtech FW1000 series products:


FW1000-TA-N


FW1000-Blade


FW1000-TM-E


FW1000-TS-E


FW1000-TS-N


FW1000-GE-N


FW1000-GA-N


FW1000-GM-N


FW1000-GS-N


FW1000-GC-N


FW1000-ME-N


FW1000-MA-N


FW1000-MS-N

Features

Advanced Platform Architecture

- DPtech FW1000 series Firewall adopts the carrier-class hardware platform. It satisfies the requirement on the security equipment linear processing capability by the core enterprise users through the multi-core system and self-developing ASIC.

Leading Security Protection Function in the Market

- Enhanced state security filtering: Support the virtual firewall technology. Support the default access control between security zones. Support the basic, extended and interface-based state detecting packet filtering technology. Support filtering based on time segment. Support the maintenance and monitoring of each piece of connection state information and dynamically filter packets. Support the state monitoring of FTP, HTTP, SMTP, RTSP, and H.323 (including Q.931, H.245 and RTP/RTCP) application layer protocols. Support the state monitoring of TCP/UDP.
- Anti-attack defense capability:
- Include DoS / DDoS attack defense (CC, SYN flood and DNS Query Flood) and ARP spoofing defense.
  - ✓ The following functions and features are provided:
    - ARP active reverse lookup
    - TCP packet illegal flag bit attack defense
    - Super large ICMP packet attack defense
    - Address/port scanning defense

- ICMP redirection or unreachable packet control function
- Tracert packet control function
- IP packet control function with routing record option
- Static and dynamic blacklist function
- MAC and IP binding function

- Application layer content filtering:
  - ✓ Effectively identity and control applications in different P2P modes of the network, and take traffic limiting control measures for the applications to effectively protect network bandwidth.
  - ✓ Able to identify and control the IM protocol, for example, QQ and MSN.
  - ✓ Support mail filtering, and provide filtering by SMTP mail address, subject, attachment and content.
  - ✓ Support web page filtering, and provide filtering by HTTP URL and content.
  - ✓ Support application layer filtering and provide Java/ActiveX Blocking and SQL injection attack.
- Multiple security authentication services:
  - ✓ Support RADIUS protocols and domain authentication.
  - ✓ Support the authentication function of digital certificate (X.509 format) based on the PKI/CA system.
  - ✓ Support user identity management. Users with different identities own different command execution rights.
  - ✓ Support user view level division. Users at different levels are offered different management and configuration rights.
- Centralized management and audit:
  - ✓ Provide different log functions, traffic statistics & analysis functions, monitoring and statistics function of different events, and mail alarm function.
- All-round NAT application support:
  - ✓ Provide such NAT application modes as multiple-to-one, multiple-to-multiple, static network segment, bidirectional conversion, IP masquerade and DNS mapping.
  - ✓ Support the correct traversing of multiple application protocols through NAT. Provide such NAT ALG functions as DNS, FTP, SIP, RSTP, H.323 and NBT.
  - ✓ Support unlimited NAT conversion.
- Support GRE, L2TP, IPSec VPN and other multiple VPN service modes.
- Support real-time Anti-Virus which adopt Kaspersky's Anti-Virus engine to detect and remove codes of malicious attacks in time.

Intelligent Network Integration

- Support routing, transparent and hybrid operation modes.
- Support static routing protocol, routing policy and policy routing.
- Support RIP v1/2, OSPF, and BGP dynamic routing protocols.
- Support 802.1Q VLAN.
- Support DHCP Client/Server/Relay.

Carrier-Class High Equipment Reliability

- Dual-system state hot backup, Active/Active and Active/Passive work modes, and load sharing and

service backup supported

- 36 years of Mean Time Between Failure (MTBF)
- The key components of the equipment adopt a redundant design.
- Support the automatic temperature detection of the internal environment. Able to collect alarm information automatically through the network management system.

Intelligent Graphic Management

- Support remote configuration management through the Web mode.
- Support the unified management of network and equipment through UMC.

Specification

Table 1 Lists the Hardware Features and Performance of DPtech FW1000-MS, MA and ME series Firewall

Item	FW1000-MS-N	FW1000-MA-N	FW1000-ME-N
Interface	1xConsole, 4xGE, 1xUSB	1xConsole, 8xGE, 1xUSB	1xConsole, 8xGE, 1xUSB
Slot	1 slot	1 slot	2 slot
CF card	1GB	1GB	1GB
DDR SDRAM	1GB	1GB	1GB
Dimensions (W × D x H)	430x261x44 mm	430x261x44 mm	430x261x44 mm
Power Supply	1	1	1
Rated Voltage Max Current	100-240VAC; 1.5A	100-240VAC; 1.5A	100-240VAC;1.5A
Max Power Consumption	54 W	54 W	54 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	3.1 kg	3.1 kg	3.1 kg
Firewall Throughput (1518 bytes)	4Gbps	5Gbps	6Gbps
Firewall Throughput (64 bytes)	300Mbps	400Mbps	500Mbps

Item	FW1000-MS-N	FW1000-MA-N	FW1000-ME-N
Firewall Latency (1518 bytes)	10us	10us	10us
Firewall Latency (64 bytes)	5us	5us	5us
Anti-Virus Throughput	50Mbps	100Mbps	200Mbps
VPN Throughput	200Mbps	300Mbps	400Mbps
Concurrent Connections	1, 200,000	1, 500,000	2, 000,000
New Connections per Second	10,000	15,000	20,000
IPSec Tunnel	1, 000	1, 000	1, 000
L2TP Tunnel	500	500	500
Max Policy	10,000	10,000	10,000
Security Zones	64	64	64
VLAN Number	4096	4096	4096
Virtual Firewall	64	64	64

Table 2 Lists the Hardware Features and Performance of DPtech FW1000-GC, GS and GM series Firewall

Item	FW1000-GC-N	FW1000-GS-N	FW1000-GM-N
Interface	1xConsole, 6xGE, 2xGE SFP, 1xUSB	1xConsole, 6xGE, 2xGE SFP, 1x USB	1xConsole, 6xGE, 2xGE SFP, 1xUSB
Slot	1 slot	1 slot	1 slot
CF card	2GB	2GB	2GB
DDR SDRAM	1GB	1GB	1GB
Dimensions (W × D x H)	430x261x44 mm	430x261x44 mm	430x261x44 mm
Power Supply	2	2	2
Rated Voltage Max Current	100-240VAC; 1.5A	100-240VAC; 1.5A	100-240VAC; 1.5A
Max Power Consumption	54 W	54 W	54 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)

Item	FW1000-GC-N	FW1000-GS-N	FW1000-GM-N
Relative Humidity	10% to 95%	10% to 95%	10% to 95%
Weight	3.1 kg	3.1 kg	3.1 kg
Firewall Throughput (1518 bytes)	8Gbps	8Gbps	8Gbps
Firewall Throughput (64 bytes)	1.5Gbps	1.8Gbps	4Gbps
Firewall Latency (1518 bytes)	10us	10us	10us
Firewall Latency (64 bytes)	5us	1us	1us
Anti-Virus Throughput	200Mbps	300Mbps	500Mbps
VPN Throughput	1.2Gbps	1.8Gbps	2Gbps
Concurrent Connections	2, 600,000	3, 000,000	3, 000,000
New Connections per Second	40,000	60,000	100,000
IPSec Tunnel	8,000	8,000	8,000
L2TP Tunnel	1,000	1,000	1,000
Max Policy	10,000	10,000	10,000
Security Zones	128	128	256
VLAN Number	4096	4096	4096
Virtual Firewall	128	128	256

Table 3 Lists the Hardware Features and Performance of DPtech FW1000-GA, GE and TS series Firewall

Item	FW1000-GA-N	FW1000-GE-N	FW1000-TS-N
Interface	1xConsole, 8xGE, 6xGE SFP, 1x USB	1xConsole, 14xGE, 12xGESFP, 2x10GE. 1xUSB	1xConsole, 14xGE, 12xGE SFP, 2x10GE, 1x USB
Slot	--	--	--
CF card	2GB	2GB	2GB

Item	FW1000-GA-N	FW1000-GE-N	FW1000-TS-N
DDR SDRAM	2GB	2GB	2GB
Dimensions (W × D x H)	436x470x44.4 mm	436x470x88 mm	436x470x88 mm
Power Supply	2	2	2
Rated Voltage Max Current	100-240VAC; 1.8A	100-240VAC; 4A	100-240VAC; 4A
Max Power Consumption	300w	300w	300w
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	5kg	10kg	10kg
Firewall Throughput (1518 bytes)	12Gbps	16Gbps	20Gbps
Firewall Throughput (64 bytes)	5Gbps	6Gbps	10Gbps
Firewall Latency (1518 bytes)	10us	10us	10us
Firewall Latency (64 bytes)	1us	1us	1us
Anti-Virus Throughput	1Gbps	6Gbps	10Gbps
VPN Throughput	4Gbps	6Gbps	6Gbps
Concurrent Connections	4, 000,000	4, 500,000	5, 000,000
New Connections per Second	150,000	200,000	400,000
IPSec Tunnel	20,000	20,000	20,000
L2TP Tunnel	2,000	2,000	2,000
Max Policy	10,000	10,000	10,000
Security Zones	256	512	1,024
VLAN Number	4,096	4,096	4,096
Virtual Firewall	256	512	1,024

Table 4 Lists the Hardware Features and Performance of DPtech FW1000-TS, TM, TA and FW1000-Blade series Firewall

Item	FW1000-TS-E	FW1000-TM-E	FW1000-TA-N	FW1000-Blade
Interface	1xConsole, 2xGE, 4xGE Combo, 4x10GE, 1xUSB	1xConsole, 2xGE, 4xGE Combo, 4x10GE, 1xUSB	--	1xConsole, 12xGE, 12xGE SFP, 1xUSB
Slot	4	4	5	-
CF card	2GB	2GB	--	-
DDR SDRAM	16GB	16GB	--	2GB
Dimensions (W × D x H)	436x510x88 mm	436x510x88 mm	436x480x283 mm	Blade Type
Power Supply	2	2	2	-
Rated Voltage Max Current	100-240VAC; 4A	100-240VAC; 4A	100-240VAC; 4A	-
Max Power Consumption	300 W	300 W	650w	-
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	22kg	22kg	45kg	-
Firewall Throughput (1518 bytes)	25Gbps	40Gbps	60Gbps	15Gbps
Firewall Throughput (64 bytes)	12Gbps	12Gbps	20Gbps	5Gbps
Firewall Latency (1518 bytes)	10us	10us	10us	10us
Firewall Latency (64 bytes)	1us	1us	1us	1us
Anti-Virus Throughput	3Gbps	5Gbps	-	-
VPN Throughput	10Gbps	15Gbps	6Gbps	6Gbps
Concurrent Connections	8, 000,000	16, 000,000	16, 000,000	4, 000,000

Item	FW1000-TS-E	FW1000-TM-E	FW1000-TA-N	FW1000-Blade
New Connections per Second	300,000	300,000	600,000	400,000
IPSec Tunnel	20,000	20,000	80,000	15,000
L2TP Tunnel	2,000	2,000	8,000	2,000
Max Policy	10,000	10,000	10,000	10,000
Security Zones	1,024	1,024	1,024	1,024
VLAN Number	4,096	4,096	4,096	4,096
Virtual Firewall	1,024	1,024	1,024	1,024

Table 5 Lists the Feature of DPtech FW1000 series Firewall

Attribute	Description	
Operation Mode	• Routing mode • Transparent mode • Hybrid mode	
Network Security	AAA service	• RADIUS authentication • PKI /CA (X.509 format) authentication • Domain authentication • CHAP authentication • PAP authentication
	Firewall	• Packet filtering • Dynamic packet filtering • Full State Detecting • Application layer protocols: IM (QQ and MSN) FTP, HTTP, SMTP, POP3, RTSP, SIP, H.323 (Q.931, H.245, and RTP/RTCP) • Transmission layer protocols: TCP and UDP • Anti-attack feature • Land, Smurf, Fraggle, WinNuke, Ping of Death, Tear Drop, IP Spoofing, CC, SYN Flood, ICMP Flood, UDP Flood, and DNS Query Flood, SYN Cookie Proxy

Attribute	Description	
		• ARP spoofing attack defense • ARP active reverse lookup • TCP packet illegal flag bit attack defense • Super large ICMP packet attack defense • Address/port scanning defense • DoS / DDoS attack defense • TCP Proxy function • ICMP redirection or unreachable packet control function • Tracert packet control function • IP packet control function with routing record option • Static and dynamic blacklist function • MAC and IP binding function • Transparent firewall • Support 802.1Q VLAN transparent transmission
	Anti-Virus	• Virus definition-based detection • Library upgrading manually and automatically • Flow handing mode • Supporting protocols of HTTP, FTP, SMTP, and POP3. • Preventing virus types of Backdoor, Email-Worm, IM-Worm, P2P-Worm, Trojan, Ad Ware, Virus • Supporting virus logs and reports
	Mail / Web Page / Application Layer Filtering	• Mail filtering • SMTP mail address filtering • Mail subject filtering • Mail content filtering • Mail attachment filtering • Web page filtering • HTTP URL filtering • HTTP content filtering • Application layer filtering

Attribute	Description	
		• Java Blocking • ActiveX Blocking • SQL injection attack defense
	Security Log and Statistics	• User behavior flow log • NAT conversion log • Attack real-time log • Blacklist log • Address binding log • Traffic alarm log • Traffic statistics and analysis function • Global/security domain based connection rate monitoring • Global/security domain based protocol packet percentage monitoring • Security event statistics function • E-MAIL mail real-time alarm function • E-MAIL mail periodical information release function
	NAT	• Support the mapping of multiple internal addresses to a public network address • Support the mapping of multiple internal addresses to multiple public network addresses • Support the one-to-one mapping of internal address and public network address • Support the simultaneous conversion of source address and destination address • Support the access to an internal server by an external network host • Support the direct mapping of the internal address to the IP address of the interface public network • Support the DNS mapping function • Able to configure the valid time of address conversion • Support multiple NAT ALGs, including DNS, FTP, H.323, ILS, MSN, NBT, PPTP, and SIP.

Attribute	Description	
	IPSec/IKE	• Support AH and ESP protocols. • Support the automatic establishment of a security alliance manually or through IKE. • ESP supports DES, 3DES and AES algorithms. • Support MD5 and SHA-1 authentication algorithms. • Support the IKE main mode and aggressive mode. • Support NAT traversing. • Support DPD detection.
Network Interconnection	LAN Protocol	• Ethernet_II • Ethernet_SNAP • 802.1q VLAN
Layer-2 Protocol	• STP / RSTP / MSTP • Link Aggregation • VLAN partition based on ports, protocols, subnet and MAC	
Network Protocol	IP Service	• ARP • Domain name resolution • DHCP Relay • DHCP Server • DHCP Client • DNS • PPPoE
	IP Routing	• Static routing • RIP v1/2 • RIPng • OSPFv1 / v2 / v3 • BGP / BGP4+ • Routing policy • Policy routing
	Multicast Protocol	• IGMP • IGMP snooping • MLD Snooping

Attribute	Description	
		• PIM-DM / PIM-SM / PIM-SSM
High Reliability	• Dual-system state hot backup, Active/Active and Active/Passive work modes, configurations, load sharing and service backup supported • WAN links load balancing • Backup VPN Peers • Key component redundancy design • Host swapping of interface module • Support VRRP • Automatic detection of chassis temperature	
Quality of Service (QoS)	Traffic Policing	• Rate Limiting and Traffic Shaping • Support LLQ, WRR and CBWFQ • Support WRED and CAR
Configuration Management	Command Line Interface	• Perform local configuration through the Console port. • Perform local or remote configuration through Telnet or SSH. • The leveled protection of the configuration command ensures that the unauthorized user cannot intrude the equipment. • The detailed debugging information helps to diagnose network faults. • Provide network test tools, for example, Tracert and Ping commands, to quickly diagnose whether the network is normal. • Execute the Telnet command directly to access and management other equipment. • FTP Server/Client can use FTP download and upload to configure files and software applications. • Support the upload/download of files through TFTP. • Support the log function. • File system management • User-interface configuration provides multiple modes of authentication and authorization functions of the users.
	• Support standard network management SNMPv3. Compatible with SNMP	

Attribute	Description
	v2c and SNMP v1. • Support NTP time synchronization.
	• Perform remote configuration management through the Web mode. • Support HTTP / HTTPS management • Support IPv6 management • Support UMC(Unified Management Center)

Ordering Information

Hardware and Advanced Service List

Part Number	Model Description	Remarks
02050032	FW1000-MS-N Host	Required
53010069	FW1000-MS-N, Application Signature Update Service, 1 Year	Optional
53010070	FW1000-MS-N, URL-Filter Signature Update Service, 1 Year	Optional
53010248	FW1000-MS-N, AV Signature Update Service, 1 Year	Optional
53010268	FW1000-MS-N, IPS Signature Update, 1 Year	Optional
02050014	FW1000-MA-N Host	Required
53010067	FW1000-MA-N, Application Signature Update Service, 1 Year	Optional
53010068	FW1000-MA-N, URL-Filter Signature Update Service, 1 Year	Optional
53010247	FW1000-MA-N, AV Signature Update Service, 1 Year	Optional
53010267	FW1000-MA-N, IPS Signature Update, 1 Year	Optional
02050031	FW1000-ME-N Host	Required
53010065	FW1000-ME-N, Application Signature Update Service, 1 Year	Optional
53010066	FW1000-ME-N, URL-Filter Signature Update Service, 1 Year	Optional
53010246	FW1000-ME-N, AV Signature Update Service, 1 Year	Optional
53010266	FW1000-ME-N, IPS Signature Update, 1 Year	Optional
02050055	FW1000-GC-N Host	Required
53010063	FW1000-GC-N,Application Signature Update Service,1 Year	Optional

53010064	FW1000-GC-N,URL-Filter Signature Update Service,1 Year	Optional
53010245	FW1000-GC-N,AV Signature Update Service,1 Year	Optional
53010265	FW1000-GC-N, IPS Signature Update, 1 Year	Optional
02050022	FW1000-GS-N Host	Required
53010061	FW1000-GS-N, Application Signature Update Service, 1 Year	Optional
53010062	FW1000-GS-N, URL-Filter Signature Update Service, 1 Year	Optional
53010244	FW1000-GS-N, AV Signature Update Service, 1 Year	Optional
53010264	FW1000-GS-N, IPS Signature Update, 1 Year	Optional
02050033	FW1000-GM-N Host	Required
53010059	FW1000-GM-N, Application Signature Update Service, 1 Year	Optional
53010060	FW1000-GM-N, URL-Filter Signature Update Service, 1 Year	Optional
53010243	FW1000-GM-N, AV Signature Update Service, 1 Year	Optional
53010263	FW1000-GM-N, IPS Signature Update, 1 Year	Optional
02050056	FW1000-GA-N Host	Required
53010057	FW1000-GA-N, Application Signature Update Service, 1 Year	Optional
53010058	FW1000-GA-N, URL-Filter Signature Update Service, 1 Year	Optional
53010242	FW1000-GA-N, AV Signature Update Service, 1 Year	Optional
53010262	FW1000-GA-N, IPS Signature Update, 1 Year	Optional
02050012	FW1000-GE-N Host	Required
53010055	FW1000-GE-N,Application Signature Update Service,1 Year	Optional
53010056	FW1000-GE-N,URL-Filter Signature Update Service,1 Year	Optional
53010241	FW1000-GE-N,AV Signature Update Service,1 Year	Optional
53010261	FW1000-GE-N, IPS Signature Update, 1 Year	Optional
02050062	FW1000-TS-N Host	Required
53010133	FW1000-TS-N,Application Signature Update Service,1 Year	Optional
53010134	FW1000-TS-N,URL-Filter Signature Update Service,1 Year	Optional
53010296	FW1000-TS-N,AV Signature Update Service,1 Year	Optional
53010297	FW1000-TS-N, IPS Signature Update, 1 Year	Optional
02050213	FW1000-TS-E Host	Required
53010288	FW1000-TS-E,Application Signature Update Service,1 Year	Optional
53010289	FW1000-TS-E,URL-Filter Signature Update Service,1 Year	Optional

53010290	FW1000-TS-E,AV Signature Update Service,1 Year	Optional
53010291	FW1000-TS-E, IPS Signature Update, 1 Year	Optional
02050170	FW1000-TM-E Host	Required
53010298	FW1000-TM-E,Application Signature Update Service,1 Year	Optional
53010299	FW1000-TM-E,URL-Filter Signature Update Service,1 Year	Optional
53010258	FW1000-TM-E,AV Signature Update Service,1 Year	Optional
53010278	FW1000-TM-E, IPS Signature Update, 1 Year	Optional

Hardware and Advanced Service List (FW1000-TA-N/FW1000-Blade)

Part Number	Model Description	Remarks
02050077	FW1000-TA-N Host	Required
02010043	DPtech Firewall Module,24 Ports GigaBit(12*SFP+12*RJ45)	Required
02010025	DPtech MPUA Module	Optional
02010037	DPtech MPUB Module	Optional
02010046	DPtech MPUB Adapter	Optional
02010082	DPtech SSL VPN Module,24 Ports GigaBit(12*SFP+12*RJ45)	Optional
02010023	DPtech 4 Ports 10-GigaBit Optical Interface Module(XFP)	Optional
02010036	DPtech 8 Ports 10-GigaBit Optical Interface Module(XFP)	Optional
02010027	DPtech 48 Ports GigaBit Optical Interface Module(SFP)	Optional
02010032	DPtech 48 Ports GigaBit Electrical Interface Module(RJ45)	Optional
02010114	DPtech 32 Ports 10-GigaBit Optical Interface Module(SFP+)	Optional
02010028	DPtech 650W AC Power Module	Optional
02010038	DPtech 650W DC Power Module	Optional

SSL VPN License

Part Number	Item Description	Remarks
53010137	SSL VPN 10 User License	Optional
53010138	SSL VPN 50 User License	Optional
53010139	SSL VPN 100 User License	Optional
53010140	SSL VPN 250 User License	Optional

53010141	SSL VPN 500 User License	Optional
53010142	SSL VPN 1000 User License	Optional
53010143	SSL VPN 2500 User License	Optional
53030145	SSL VPN 5000 User License	Optional

Interface Module and Transceivers

Part No.	Interface Module	Remarks
02010052	4-Port 1000M Ethernet Electrical Interface Module	Optional
02010051	4-Port 1000M Ethernet Optical Interface Module	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,LC)	Optional
02010079 *	DPtech SFP+ 10-GigaBit Optical Module,Single Mode,(1550nm,40km,LC)	Optional

* Only for FW1000-TM-E/TS-E.

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