FortiGate® 1000C

Accelerated, Proven Security for the Enterprise

By intercepting and inspecting network traffic at wire speeds, the FortiGate 1000C helps you identify and remove threats hidden within legitimate application traffic. With firewall performance of 20 Gbps and IPS throughput of 6 Gbps, the FortiGate 1000C is ideal for mid-to-large enterprise deployments. The FortiGate 1000C delivers the performance you need to control your organization's applications, data, and users without becoming a network bottleneck.

The Power of Unified Threat Management (UTM)

The FortiGate 1000C security platform delivers industry-leading performance and flexibility. You can deploy the right blend of essential hardware-accelerated security technologies now and in the future to meet your evolving network requirements. These technologies include firewall, VPN, intrusion prevention, application control, and web content filtering, all managed from a 'single pane of glass' management console. The FortiGate-1000C also includes additional security technologies such as antivirus/antimalware, antispam, vulnerability management, and WAN optimization, allowing you to consolidate stand-alone devices.

The FortiGate-1000C gives you the ability to identify and stop numerous types of threats from a single device. For example, advanced application control enables you to define and enforce policies for thousands of applications running across your network, regardless of port or protocol used. Data leakage prevention technology, using a sophisticated pattern-matching engine, helps identify and prevent the accidental or intentional transfer of sensitive information outside of network perimeters, even when applications encrypt their communications.

The high port density and types of ports of the FortiGate-1000C gives you the freedom to create multiple security zones for various departments, users, access methods, and even devices. There are eight (8) shared RJ-45/SFP Gigabit Ethernet ports for deployment flexibility, as well as two (2) bypass-protected port to preserve network availability in the event of a device failure. In addition, 120 GB of onboard flash memory lets you deploy WAN optimization to reduce bandwidth consumption across your WAN connection, enable local reporting, or archive content locally.

FortiOS: The World's Most Advanced Security Operating System

FortiOS provides high performance, ultra low latency multi-threat security by leveraging the hardware acceleration provided by purpose-built FortiASIC processors. This combination of custom hardware and software gives you the best security and performance possible from a single device. FortiOS allows greater traffic visibility and more consistent, granular control over users, applications and sensitive data.

The FortiASIC Advantage

FortiASIC processors power FortiGate platforms. With exclusive hardware, the purpose built, high performance Network, Security, and Content processors use intelligent and proprietary digital engines to accelerate resource intensive security services.

Challenge	Solution
Visibility and control of new applications and content	FortiGate devices deliver complete, comprehensive application control, enabling you to block unwanted traffic and behavior.
Time-sensitive applications require extremely low latency during transit	FortiGate 1000C appliance ensures that security is never a bottleneck. Up to 20 Gbps firewall performance and up to 8 Gbps IPSec VPN performance ensures optimal performance of latency-sensitive applications.
Internal network segmentation is difficult to deploy	FortiGate 1000C appliance with 24 hardware-accelerated switched ports permit a wide-array of deployments.
Applications are expected to perform well over the WAN	The FortiGate 1000C features 120 GB of onboard storage for WAN Optimization.
Eliminating blind spots caused by using multiple non-integrated security technologies	Fortinet combines core security technologies such as firewall, VPN, intrusion prevention, and application control into a single platform, providing an effective all-in-one solution.

FortiGate Consolidated Security Solutions

Fortinet's consolidated security solutions provide an integrated set of core security and network services in a single, easy-to-manage, high-performance appliance that is capable of supporting a wide range of deployment scenarios. In addition, FortiGuard® Subscription Services include dynamic updates to ensure your security environment remains current and your corporate resources are protected against the latest threats.

Technical Specifications	FortiGate 1000C
HARDWARE	
Accelerated 10 GE SFP+ Interfaces	2
Accelerated 10/100/1000 Interfaces (RJ-45)	12
Accelerated GE SFP or 10/100/1000 Shared Interfaces	8
Accelerated 10/100/1000 Bypass Interfaces	2 pairs
10/100/1000 Management Interface	2
Maximum Network Interfaces	26
Internal Storage	120 GB
Included Transceivers	2x SFP (SX 1GE)
USB Ports (Client/Server)	1 / 1
SYSTEM PERFORMANCE	
Firewall Throughput (1518 / 512 / 64 byte UDP packets)	20 / 20 / 20 Gbps
Firewall Latency (64 byte UDP packets)	6 µs
Firewall Throughput (Packets Per Second)	30 Mpps
Concurrent Sessions (TCP)	7 Million
New Sessions/Sec (TCP)	190,000
Firewall Policies	100,000
IPsec VPN Throughput (512 byte packets)	8 Gbps
Gateway-to-Gateway IPsec VPN Tunnels	10,000
Client-to-Gateway IPsec VPN Tunnels	50,000
SSL-VPN Throughput	1.3 Gbps
Concurrent SSL-VPN Users (Recommended Maximum)	10,000
IPS Throughput	6 Gbps
Antivirus Throughput (Proxy Based / Flow Based)	1.7 / 3.1 Gbps
CAPWAP Clear-text Throughput (HTTP)	4.80 Gbps
Virtual Domains (Default / Maximum)	10 / 250
Maximum Number of FortiAPs (Total / Tunnel Mode)	4,096 / 1,024
Maximum Number of FortiTokens	5,000
Maximum Number of Registered FortiClients	8,000
High Availability Configurations	Active/Active, Active/Passive, Clustering
Unlimited User Licences	Yes

Technical Specifications	FortiGate 1000C
DIMENSIONS AND POWER	
Height	3.5 in (88 mm)
Width	17 in (432 mm)
Length	16.4 in (416 mm)
Weight	24.6 lb (11.2 kg)
Rack Mountable	Yes
AC Power	100–240V AC, 60–50 Hz
Max Current	110 V / 7 A, 220 V / 3.5 A
Power Consumption (Average)	192 W
Power Consumption (Maximum)	230 W
Heat Dissipation	785 BTU/h
DC Power (FG-1000C-DC Required)	-48V VDC (Normal)
Redundant Power Supply (Hot-swappable)	Yes
ENVIRONMENT AND CERTIFICATIONS	
Operating Temperature	32–104°F (0–40°C)
Storage Temperature	-31–158°F (-35–70°C)
Humidity	20–90% non-condensing
Operating Altitude	Up to 7,400 ft (2,250 m)
Compliance	FCC Part 15 Class A, C-Tick, VCCI, CE, UL/cUL, CB
Certifications	ICSA Labs: Firewall, IPsec, IPS, Antivirus, SSL-VPN

All performance values are "up to" and vary depending on system configuration. Antivirus performance is measured using 44 Kbyte HTTP files. IPS performance is measured using 1 Mbyte HTTP files. IPsec VPN performance is based on 512 byte UDP packets using AES-256+SHA1.

Ordering Information

Product	SKU	Description
FortiGate 1000C	FG-1000C	2x 10 GE SFP+ slots, 12x GE RJ45 ports, 8x Shared Media pairs (including 8x GE RJ45, 8x GE SFP slots), 4x GE RJ45 with Bypass Protection, 120 G SSD.
FortiGate 1000C-DC	FG-1000C-DC	2x 10 GE SFP+ slots, 12x GE RJ45 ports, 8x Shared Media pairs (including 8x GE RJ45, 8x GE SFP slots), 4x GE RJ45 with Bypass Protection, 120 G SSD.
Optional Accessories		
AC power supply	SP-FG600C-PS	AC power supply for FG-600C, FG-800C, and FG-1000C.
DC power supply	SP-FG600C-DC-PS	DC power supply for FG-600C-DC, FG-800C-DC, and FG-1000C-DC.

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