



DATASHEET

# FortiGate® 800C

## Accelerated Security for Mid-Sized Enterprises and Large Branch Offices

FortiGate Unified Threat Management (UTM) systems from Fortinet® offer you the freedom to select the security solution that most closely matches your port density, performance, and bandwidth needs. With firewall performance of 20 Gbps and IPS throughput of 6 Gbps and 10 GE interfaces in a 1U form-factor, FortiGate 800C is ideal for mid-sized enterprises and large enterprise branch offices. The FortiGate 800C platform gives you the ability to improve your security posture and accelerate your network performance while simplifying your network infrastructure.

### The Power of Unified Threat Management

Like other members of the FortiGate product family, the FortiGate 800C combines firewall, application control, IPsec and SSL-VPN, intrusion prevention, antivirus, antimalware, antispam and Web filtering into a single device. Equipped with these broad security capabilities, the FortiGate 800C can help organizations meet regulatory compliance requirements and protect against the latest targeted attacks, network vulnerabilities and malicious applications.

The FortiGate 800C supports today's advanced networks with with two (2) 10 GE and twelve (12) 10/100/1000 interfaces that can be easily partitioned into independent security zones and custom combinations of LAN and WAN ports. Eight (8) shared copper/fiber GE interfaces support evolving networks that may be migrating to fiber on select network segments. You can protect your network availability with two (2) pairs of bypass-enabled ports, allowing continued network operations in the event of device failure. Dual-WAN redundant connections for maximum reliability and availability are also supported by default and a dedicated DMZ port adds an extra layer of protection for Web-facing servers. The onboard USB management port provides an easy way to setup and configure the device using the FortiExplorer configuration wizard. In addition, the FortiGate 800C features 60 GB of internal storage for WAN optimization, local SQL-based reporting, or data archiving for policy compliance.



### 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 800C 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 800C appliance with 24 hardware-accelerated switched ports permit a wide-array of deployments.
Evolution of network infrastructure	The FortiGate 800C includes 2x 10 GE interfaces for maximum performance, as well as shared media interfaces to ease the transition from copper to fiber.
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 you with an integrated set of core security and network services in a single, easy-to-manage, high-performance appliance that gives you unmatched flexibility to deploy the right mix of technology for your unique requirements. 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 800C
<b>HARDWARE</b>	
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	60 GB
Included Transceivers	2x SFP (SX 1GE)
USB Ports (Client/Server)	1 / 1
<b>SYSTEM PERFORMANCE</b>	
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	10,000
IPsec VPN Throughput (512 byte packets)	8 Gbps
Gateway-to-Gateway IPsec VPN Tunnels	2,000
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 / 10
Maximum Number of FortiAPs (Total / Tunnel Mode)	1,024 / 512
Maximum Number of FortiTokens	1,000
Maximum Number of Registered FortiClients	2,000
High Availability Configurations	Active/Active, Active/Passive, Clustering
Unlimited User Licenses	Yes

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<b>DIMENSIONS AND POWER</b>	
Height	1.75 in ( 44 mm)
Width	17 in ( 432 mm)
Length	16.42 in ( 417 mm)
Weight	19.4 lb ( 8.8 kg)
Rack Mountable	Yes (Attachable Ears)
AC Power	100–240V AC, 60–50 Hz
Power Consumption (Average)	158 W
Power Consumption (Maximum)	189 W
Heat Dissipation	645 BTU/h
DC Power (FG-800C-DC Required)	-48V VDC (Normal)
Redundant Power Supply (Hot-swappable)	Optional
<b>ENVIRONMENT AND CERTIFICATIONS</b>	
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 Info		
Product	SKU	Description
FortiGate 800C	FG-800C	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, 60G SSD onboard storage.
FortiGate 800C-DC	FG-800C-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, 64G SSD onboard storage, with DC power supply.
<b>Optional Accessories</b>		
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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