

Twoja Infrastruktura IT

netf.pl

NETF, specjalizujemy się w sprzedaży zaawansowanej infrastruktury IT. Znajdą tu Państwo szeroki asortyment produktów od czołowych światowych producentów sprzętu i oprogramowania IT, w tym H3C, Huawei, Cisco, Juniper, Fortinet, a także Dell, IBM, CommVault i ESET. Dzięki współpracy z tymi renomowanymi partnerami, NETF zapewnia swoim klientom dostęp do najnowocześniejszych rozwiązań technologicznych.

**Bezpieczeństwo,
Efektywność,
Optymalizacja**



FortiGate FortiWiFi 50G Series



Highlights

Gartner® Magic Quadrant™ Leaders for both Network Firewalls and SD-WAN

Unparalleled performance enabled by Fortinet's patented ASIC and the FortiOS operating system

Enterprise-grade protection with FortiGuard AI-Powered Security Services

Simplified operations with centralized management for networking and security, automated workflows, deep analytics, and self-healing

Inclusive SD-WAN and wireless controller in every FortiGate appliance at no extra cost

Rich portfolio for any business budget and need

Converged Next-Generation Firewall and SD-WAN

The FortiGate and FortiWiFi 50G series integrate firewalling, SD-WAN, and security in one appliance, making them perfect for building secure networks at distributed enterprise sites and transforming WAN architecture at any scale.

The 50G series runs on FortiOS, the industry's first converged networking and security operating system. This single OS approach enables businesses to gain benefits of operational efficiency and unified protection from the seamless integration of Fortinet Solutions within a Hybrid Mesh Firewall architecture.

As a cornerstone of the Fortinet Security Fabric platform, the FortiGate NGFW works seamlessly with FortiGuard AI-Powered Security Services to deliver coordinated, automated, end-to-end threat protection in real time.

The 50G family is built on the patented SD-WAN-based ASIC, which delivers unmatched performance over traditional CPUs with lower cost and reduced power consumption. This application-specific design and embedded multi-core processor further accelerate the convergence of networking and security functions in the 50G family to optimize secure connections and deliver a robust user experience at branch locations.

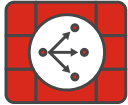
IPS	NGFW	Threat Protection	Interfaces
2.25 Gbps	1.25 Gbps	1.1 Gbps	Multiple GE RJ45 Variants with 5G, PoE, DSL, SFP, WiFi, and/or storage

Use Cases



Perimeter Protection

- Protect networks from malicious traffic, guard against file-based threats, block web-based attacks, and secure applications and data with natively integrated FortiGuard AI-Powered Security Services
- Inspect and control incoming and outgoing traffic based on defined security policies
- Perform real-time SSL inspection (including TLS 1.3) with full visibility into users, devices, and applications across the attack surface
- Accelerate performance, protection, and energy efficiency with Fortinet's patented SPU with converged security and networking technologies



Secure SD-WAN

- FortiGate enables best-of-breed WAN edge with integrated SD-WAN, WAN optimization, security, and unified management from a single FortiOS operating system
- FortiGate, built on a patented SD-WAN-based ASIC, delivers faster application identification to avoid delays in accessing applications and accelerates overlay performance regardless of location
- Enhances hybrid working with a comprehensive SASE solution by integrating cloud-delivered SD-WAN with security service edge (SSE)
- Achieves operational efficiencies at any scale through automation, deep analytics, and self-healing



Secure Branch

- The Fortinet Security Fabric platform enables FortiGate NGFWs to automatically discover and secure IoT devices for faster branch onboarding
- Fully integrated with FortiSwitch secure Ethernet switches and FortiAP access points, FortiGate easily extends security to WAN, LAN, and WLAN at branch offices for unified protection and reliable connectivity
- FortiGate and Fortinet products work seamlessly with FortiManager to centralize visibility and simplify management across locations for IT teams
- FortiGate HA support ensures continuous network protection and minimizes downtime in the event of hardware failures or network disruptions



FortiGuard AI-Powered Security Services

FortiGuard AI-Powered Security Services is part of Fortinet's layered defense and tightly integrated into our FortiGate NGFWs and other products. Infused with the latest threat intelligence from FortiGuard Labs, these services protect organizations against modern attack vectors and threats, including zero-day and sophisticated AI-powered attacks.

Network and file security

Network and file security services protect against network and file-based threats. With over 18,000 signatures, our industry-leading intrusion prevention system (IPS) uses AI/ML models for deep packet/SSL inspection, detecting and blocking malicious content, and applying virtual patches for newly discovered vulnerabilities. Anti-malware protection defends against both known and unknown file-based threats, combining antivirus and sandboxing for multi-layered security. Application control improves security compliance and provides real-time visibility into applications and usage.

Web/DNS security

Web/DNS security services protect against DNS-based attacks, malicious URLs (including those in emails), and botnet communications. DNS filtering blocks the full spectrum of DNS-based attacks while URL filtering uses a database of over 300 million URLs to identify and block malicious links. Meanwhile, IP reputation and anti-botnet services guard against botnet activity and DDoS attacks. FortiGuard Labs blocks over 500 million malicious/phishing/spam URLs weekly, and blocks 32,000 botnet command-and-control attempts every minute, demonstrating the robust protection offered through Fortinet.

SaaS and data security

SaaS and data security services cover key security needs for application use and data protection. This includes data loss prevention to ensure visibility, management, and protection (blocking exfiltration) of data in motion across networks, clouds, and users. Our inline cloud access security broker service protects data in motion, at rest, and in the cloud, enforcing compliance standards and managing account, user, and cloud app usage. Services also assess infrastructure, validate configurations, and highlight risks and vulnerabilities, including IoT device detection and vulnerability correlation.

Zero-Day threat prevention

Zero-day threat prevention is achieved through AI-powered inline malware prevention to analyze file content to identify and block unknown malware in real time, delivering sub-second protection across all NGFWs. The service also integrates the MITRE ATT&CK matrix to speed up investigations. Integrated into FortiGate NGFWs, the service provides comprehensive defense by blocking unknown threats, streamlining incident response, and reducing security overhead.

OT security

With over 1000 virtual patches, 1100+ OT applications, and 3300+ protocol rules, integrated OT security capabilities detect threats targeting OT infrastructure, perform vulnerability correlation, apply virtual patching, and utilize industry-specific protocol decoders for robust defense of OT environments and devices.





Available in



Appliance



Virtual



Hosted



Cloud



Container

FortiOS Everywhere

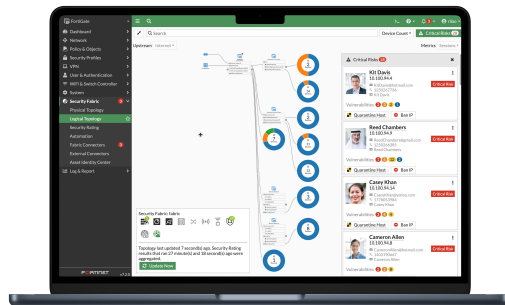
FortiOS, Fortinet's Real-Time Network Security Operating System

FortiOS is the operating system that powers Fortinet Security Fabric platform, enabling enforcement of security policies and holistic visibility across the entire attack surface. FortiOS provides a unified framework for managing and securing networks, cloud-based, hybrid, or a convergence of IT, OT, and IoT. FortiOS enables seamless and efficient interoperation across Fortinet products with consistent and consolidated AI-powered protection across today's hybrid environments.

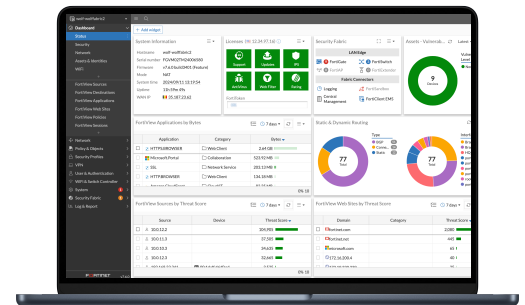
Unlike traditional point solutions, Fortinet adopts a holistic approach to cybersecurity, aiming to reduce complexities, eliminate security silos, and improve operational efficiencies. By consolidating security functions into a single platform, FortiOS simplifies management, reduces costs, and enhances overall security posture. Together, FortiGate and FortiOS create intelligent, adaptive protection to help organizations reduce complexity, eliminate security silos, and optimize user experience.

By integrating generative AI (GenAI), FortiOS further enhances the ability to analyze network traffic and threat intelligence, detects deviations or anomalies more effectively, and provides more precise remediation recommendations, ensuring minimum performance impact without compromising security.

Learn more about what's new in FortiOS. <https://www.fortinet.com/products/fortigate/fortios>



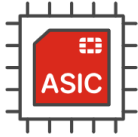
Intuitive easy to use view into the network and endpoint vulnerabilities



Comprehensive view of network performance, security, and system status



Fortinet ASICs: Unrivaled Security, Unprecedented Performance



Powered by the only purpose-built SPU

Traditional firewalls cannot protect against today's content and connection-based threats because they rely on off-the-shelf general-purpose central processing units (CPUs), leaving a dangerous security gap. Fortinet's custom SPUs deliver the power you need to radically increase speed, scale, and efficiency while greatly improving user experience and reducing footprint and power requirements. Fortinet's SPUs deliver up to 520 Gbps of protected throughput to detect emerging threats and block malicious content while ensuring your network security solution does not become a performance bottleneck.

Fortinet ASICs are designed to be energy-efficient, leading to lower power consumption and improved TCO. They deliver industry-leading throughput, handle more traffic and perform security inspections faster, reduce latency for quicker packet processing and minimize network delays.

Fortinet SPUs are designed with integrated security functions like zero trust, SSL, IPS, and VXLAN to name but a few, dramatically improving the performance of these functions that competitors traditionally implement in software.

Secure SD-WAN ASIC SP5

- Combines a RISC-based CPU with Fortinet's proprietary SPU content and network processors for unmatched performance
 - Delivers the industry's fastest application identification and steering for efficient business operations
 - Accelerates IPsec VPN performance for the best user experience on direct internet access
 - Enables best-of-breed NGFW security and deep SSL inspection with high performance
 - Extends security to the access layer to enable SD-Branch transformation with accelerated and integrated switch and access point connectivity
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Unified Management for Optimal Security and Efficiency

Whether you are a small business or a large enterprise, Fortinet provides centralized control, visibility, and automation for your security infrastructure.

FortiManager: Centralized management at scale for distributed enterprises

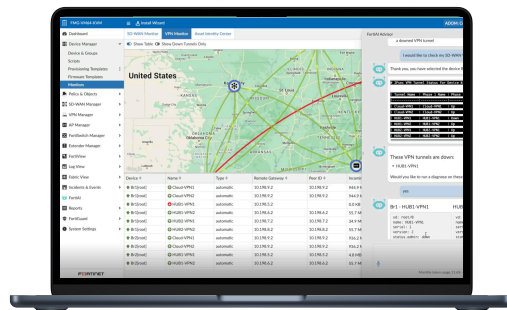


FortiManager, powered by FortiAI, is a centralized management solution for the Fortinet Security Fabric. It streamlines mass provisioning and policy management for FortiGate, FortiGate VM, cloud security, SD-WAN, SD-Branch, FortiSASE, and ZTNA in hybrid environments. Additionally, FortiManager provides real-time monitoring of the entire managed infrastructure and automates network operation workflows. Leveraging GenAI in FortiAI, it further enhances Day 0–1 configurations and provisioning, and Day N troubleshooting and maintenance, unlocking the full potential of the Fortinet Security Fabric and significantly boosting operational efficiency.

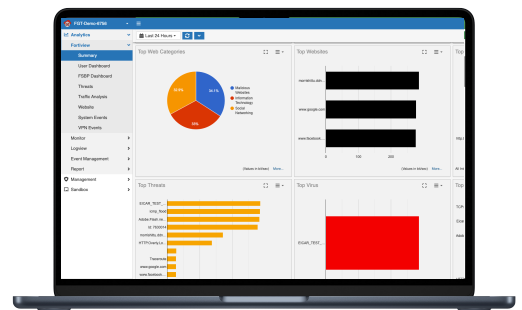
FortiGate Cloud: Simplified management for small and mid-size businesses



FortiGate Cloud is a SaaS service offering simplified management, security analytics, and reporting for Fortinet FortiGate NGFWs to help you more efficiently manage your devices and reduce cyber risk. It simplifies the initial deployment, setup, and ongoing management of FortiGates and downstream connected devices such as FortiAP, FortiSwitch, and FortiExtender, with zero-touch provisioning. It provides real-time and historical visibility into traffic analytics and security threats to reduce risks and improve security posture. View various threats, web traffic, and system events stored in the cloud for up to a year, with predefined reports to meet compliance and deliver actionable insights.



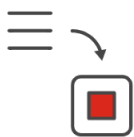
GenAI in FortiManager helps manage networks effortlessly -- generates configuration and policy scripts, troubleshoot issues, and execute recommended actions.



FortiGate Cloud provides intuitive management and analytics solution with end-to-end visibility, logging and reporting for SMB.

FortiConverter Service

Migration to FortiGate NGFW made easy



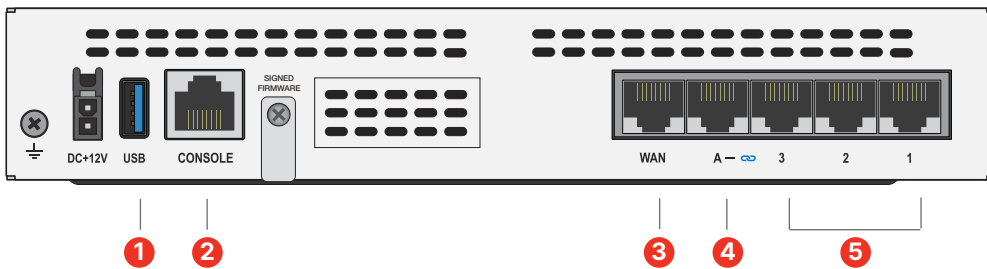
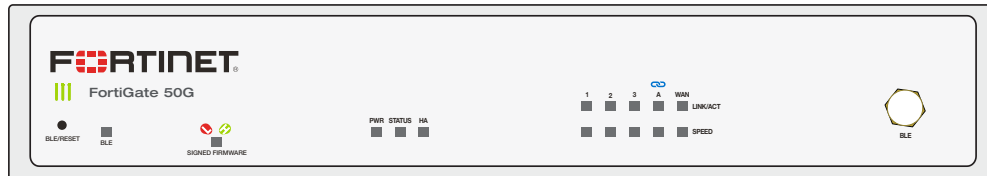
The FortiConverter Service provides hassle-free migration to help organizations transition quickly and easily from a wide range of legacy firewalls to FortiGate NGFWs. The service eliminates errors and redundancy by employing best practices with advanced methodologies and automated processes. Organizations can accelerate their network protection with the latest FortiOS technology.



Hardware

FortiGate 50G/51G

- SP5
- TPM
- ▴ DESKTOP
- GE
- 64GB

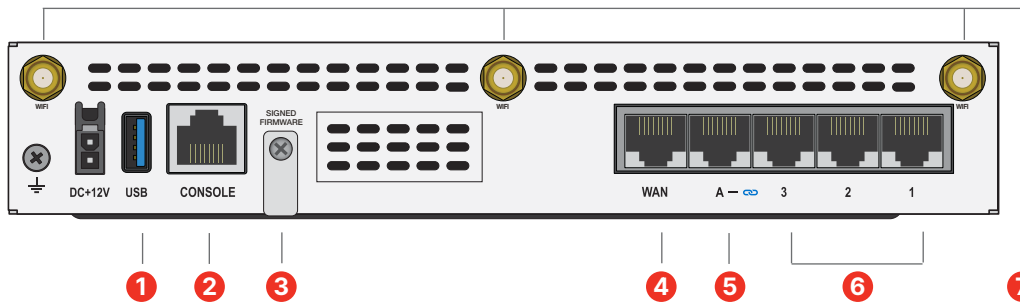
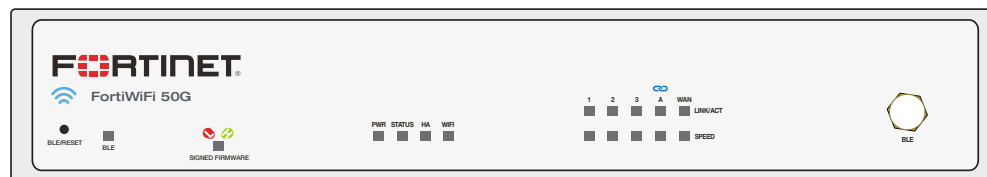


Interfaces

1. 1 x USB Port
2. 1 x Console Port
3. 1 x GE RJ45 WAN Port
4. 1 x GE RJ45 FortiLink Port
5. 3 x GE RJ45 Ethernet Ports

FortiWiFi 50G/51G Series

- SP5
- TPM
- ▴ DESKTOP
- GE
- 64GB
- 📶 a/b/g/n/ac-W2/ax



Interfaces

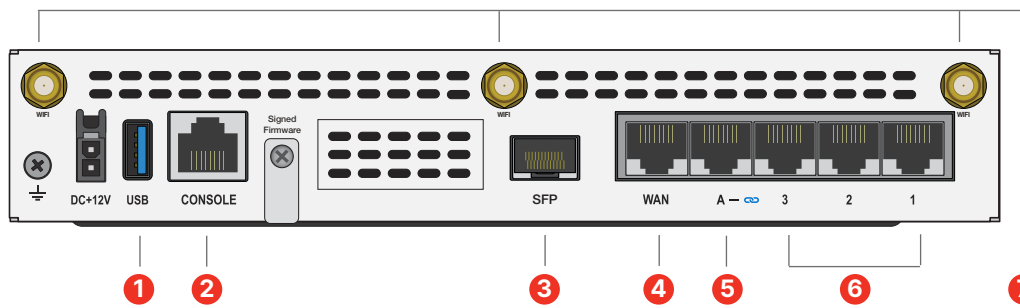
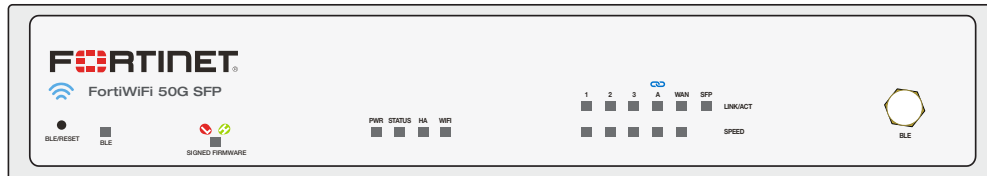
1. 1 x USB Port
2. 1 x Console Port
3. Signed Firmware Switch
4. 1 x GE RJ45 WAN Port
5. 1 x GE RJ45 FortiLink Port
6. 3 x GE RJ45 Ethernet Ports
7. 3 x WiFi Antenna Ports



Hardware

FortiGate/ FortiWiFi 50G-SFP

- SP5
- TPM
- DESKTOP
- GE
- SFP
- a/b/g/n/ac-W2/ax

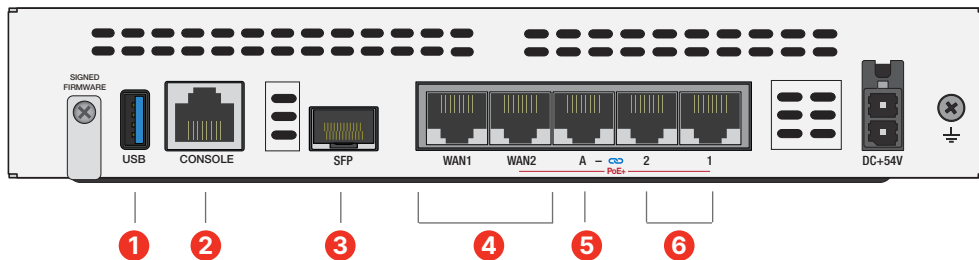
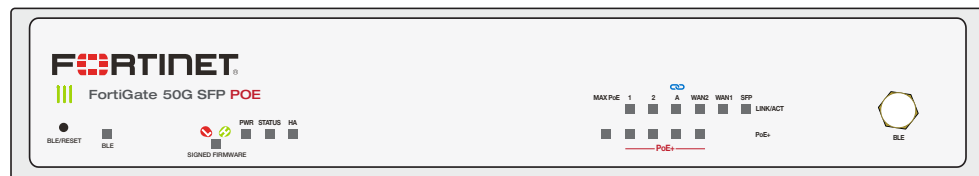


Interfaces

1. 1 x USB Port
2. 1 x Console Port
3. 1 x GE SFP Port
4. 1 x GE RJ45 WAN Port
5. 1 x GE RJ45 FortiLink Port
6. 3 x GE RJ45 Ethernet Ports
7. 3 x WiFi Antenna Ports (FWF models only)

FortiGate 50/51G-SFP-POE

- SP5
- TPM
- DESKTOP
- GE
- SFP
- POE
- 64GB



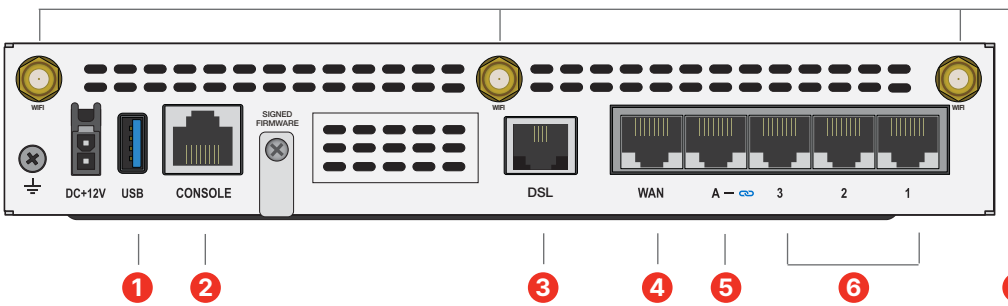
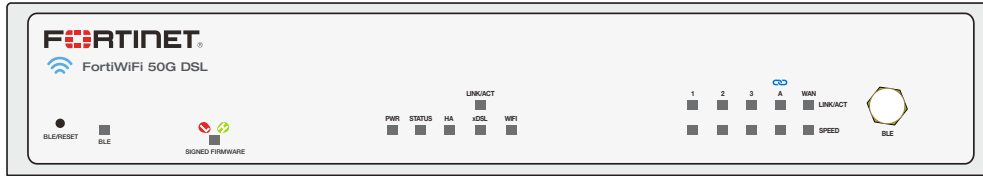
Interfaces

1. 1 x USB Port
2. 1 x Console Port
3. 1 x GE SFP Port
4. 2 x GE RJ45 WAN Ports (WAN2 PoE+)
5. 1 x GE RJ45 FortiLink Port (PoE+)
6. 2 x GE RJ45 Ethernet Ports (PoE+)



Hardware

FortiGate/ FortiWiFi 50G-DSL



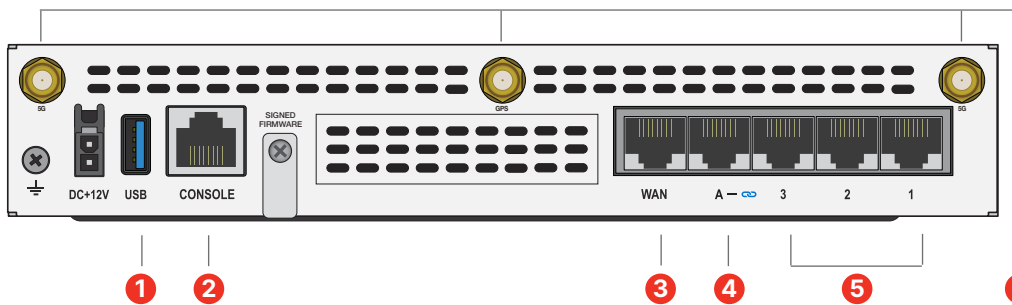
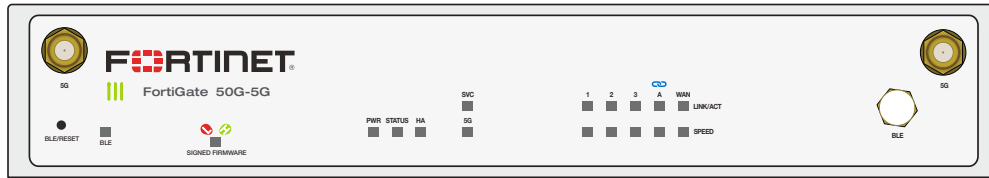
Interfaces

1. 1 x USB Port
2. 1 x Console Port
3. 1 x DSL RJ11 Port
4. 1 x GE RJ45 WAN Port
5. 1 x GE RJ45 FortiLink Port
6. 3 x GE RJ45 Ethernet Ports
7. 3 x WiFi Antenna Ports (FWF models only)

Hardware

FortiGate 50G-5G/51G-5G

- SP5
- TPM
- DESKTOP
- GE
- 5G
- 64GB

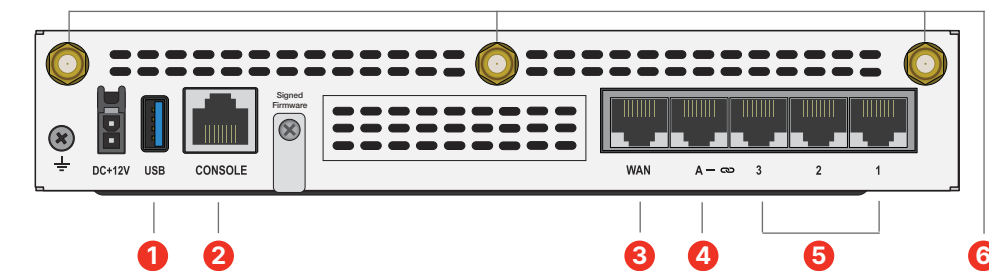
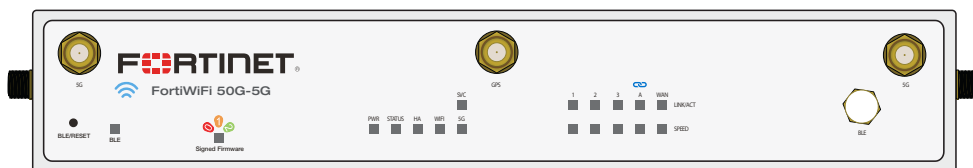


Interfaces

1. 1 x USB Port
2. 1 x Console Port
3. 1 x GE RJ45 WAN Port
4. 1 x GE RJ45 FortiLink Port
5. 3 x GE RJ45 Ethernet Ports
6. 5 x WWAN Antenna Ports

FortiWiFi 50G-5G-II

- SP5
- TPM
- DESKTOP
- GE
- 5G
- a/b/g/n/ac-W2/ax



Interfaces

1. 1 x USB Port
2. 1 x Console Port
3. 1 x GE RJ45 WAN Port
4. 1 x GE RJ45 FortiLink Port
5. 3 x GE RJ45 Ethernet Ports
6. 3 x WiFi Antenna Ports
5 x WWAN Antenna Ports



Hardware Features



Superior wireless coverage

A built-in dual-band, dual-stream access point is integrated on the FortiWiFi 50G series, which provides the industry's high-speed WiFi-6 (802.11ax) wireless access.



Trusted Platform Module (TPM)

The FortiGate 50G series features a dedicated module that hardens physical networking appliances by generating, storing, and authenticating cryptographic keys. Hardware-based security mechanisms protect against malicious software and phishing attacks.



Access layer security

FortiLink protocol enables you to converge security and network access by integrating the FortiSwitch into the FortiGate as a logical extension of the firewall. These FortiLink-enabled ports can be reconfigured as regular ports as needed.



Compact and reliable form factor

Designed for small environments, the FortiGate can be on a desktop or wall-mounted. It is small, lightweight, yet highly reliable with superior meantime between failures, minimizing the chance of network disruption.



Signed Firmware Hardware Switch

The signed firmware switch is a physical security switch. It is by default set to the highest security level. The highest security level ensures that only an appropriately validated FortiOS firmware can be loaded on the FortiGate. This feature adds an additional physical layer of security to the FortiGate, acting as a key deterrent to and reducing risk of compromise.

Specifications

	FG-50G/51G	FWF-50G/-51G
Hardware Specifications		
Hardware Accelerated GE WAN Ports	1	
Hardware Accelerated GE RJ45 Ports	3	
Hardware Accelerated GE RJ45 FortiLink Port (Default)	1	
USB Port	1	
Console Port (RJ45)	1	
Internal Storage	— / 64 GB SSD	— / 64 GB SSD
Trusted Platform Module (TPM)		✓
Bluetooth Low Energy (BLE)		✓
Signed Firmware Hardware Switch		✓
Antenna Ports (SMA)	—	3
SIM Slots (Nano SIM)	—	2
Wireless Interface	—	Dual Radio (2.4 GHz/ 5 GHz), 802.11 a/b/g/n/ac/ax
System Performance — Enterprise Traffic Mix		
IPS Throughput ²	2.25 Gbps	
NGFW Throughput ^{2,4}	1.25 Gbps	
Threat Protection Throughput ^{2,5}	1.1 Gbps	
System Performance		
Firewall Throughput (1518/512/64 byte UDP packets)	5 / 5 / 4 Gbps	
Firewall Latency (64 byte UDP packets)	2.42 µs	
Firewall Throughput (Packets Per Second)	6 Mpps	
Concurrent Sessions (TCP)	720 000	
New Sessions/Second (TCP)	85 000	
Firewall Policies	2000	
IPsec VPN Throughput (512 byte) ¹	4.5 Gbps	
Gateway-to-Gateway IPsec VPN Tunnels	200	
Client-to-Gateway IPsec VPN Tunnels	250	
SSL-VPN Throughput	—	
Concurrent SSL-VPN Users (Recommended Maximum, Tunnel Mode)	—	
SSL Inspection Throughput (IPS, avg. HTTPS) ³	1.3 Gbps	
SSL Inspection CPS (IPS, avg. HTTPS) ³	699	
SSL Inspection Concurrent Session (IPS, avg. HTTPS) ³	74 000	
Application Control Throughput (HTTP 64K) ²	2.8 Gbps	
CAPWAP Throughput (HTTP 64K)	3.8 Gbps	
Virtual Domains (Default/Maximum)	5/5	

Note: All performance values are “up to” and vary depending on system configuration.

¹ IPsec VPN performance test uses AES256-SHA256.

² IPS (Enterprise Mix), Application Control, NGFW and Threat Protection are measured with Logging enabled.

³ SSL Inspection performance values use an average of HTTPS sessions of different cipher suites.



	FG-50G/51G	FWF-50G/-51G
Maximum Number of FortiSwitches Supported		8
Maximum Number of FortiAPs (Total/Tunnel Mode)		16 / 8
Maximum Number of FortiTokens		500
High Availability Configurations	Active-Active, Active-Passive, Clustering	
Dimensions		
Height x Width x Length (inches)	1.6 × 8.5 × 6.3	1.7 × 8.5 × 7.0
Height x Width x Length (mm)	40.5 × 216 × 160	42 × 216 × 178
Weight	2.2 lbs (1.0 kg)	2.4 lbs (1.1 kg)
Form Factor (supports EIA/non-EIA standards)	Desktop	
Operating Environment and Certifications		
Power Rating	12VDC, 3A	
Power Required	Powered by External DC Power Adapter, 100-240V AC, 50/60 Hz	
Maximum Current	100V/0.4A, 240V/0.2A	TBA
Power Consumption (Average/Maximum)	8.3 W / 8.9 W	TBA
Heat Dissipation	30.35 BTU/h	TBA
Operating Temperature	32°F to 104°F (0°C to 40°C)	
Storage Temperature	-31°F to 158°F (-35°C to 70°C)	
Humidity	10% to 90% non-condensing	
Noise Level	Fanless 0 dBA	
Operating Altitude	Up to 10 000 ft (3048 m)	
Compliance	FCC, ISED, CE, UL/cUL, CB	
Certifications	USGv6/IPv6	
Radio Specifications		
Multiple User (MU) MIMO	—	2 × 2
Maximum Wi-Fi Speeds	—	1201 Mbps @ 5 GHz, 574 Mbps @ 2.4 GHz
Maximum Tx Power	—	21.0 dBm per chain @ 2.4GHz, 19.5 dBm per chain @ 5GHz

⁴ NGFW performance is measured with Firewall, IPS and Application Control enabled.

⁵ Threat Protection performance is measured with Firewall, IPS, Application Control and Malware Protection enabled.

Specifications

	FG-50G-SFP	FWF-50G-SFP	FG-50G-SFP-POE/FG-51G-SFP-POE
Hardware Specifications			
Hardware Accelerated GE WAN Ports	1		2
Hardware Accelerated GE RJ45 Ports	3		—
Hardware Accelerated GE RJ45 POE/+ Ports	—		4
Hardware Accelerated GE SFP Slots	1		1
Hardware Accelerated GE RJ45 FortiLink Port (Default)	1		1 (PoE+)
USB Port	1		1
Console Port (RJ45)	1		1
Internal Storage	—		— / 64 GB SSD
Trusted Platform Module (TPM)	⊙		⊙
Bluetooth Low Energy (BLE)	⊙		⊙
Signed Firmware Hardware Switch	⊙		⊙
Antenna Ports (SMA)	—	3	—
Wireless Interface	—	Dual Radio (2.4 GHz/ 5 GHz), 802.11 a/b/g/n/ac/ax	—
System Performance — Enterprise Traffic Mix			
IPS Throughput ²		2.25 Gbps	
NGFW Throughput ^{2,4}		1.25 Gbps	
Threat Protection Throughput ^{2,5}		1.1 Gbps	
System Performance			
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SSL-VPN Throughput		—	
Concurrent SSL-VPN Users (Recommended Maximum, Tunnel Mode)		—	
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⁴ NGFW performance is measured with Firewall, IPS and Application Control enabled.

⁵ Threat Protection performance is measured with Firewall, IPS, Application Control and Malware Protection enabled.



Specifications

	FG-50G-SFP	FWF-50G-SFP	FG-50G-SFP-POE/FG-51G-SFP-POE
Dimensions			
Height x Width x Length (inches)		1.6 × 8.5 × 6.3	
Height x Width x Length (mm)		40.5 × 216 × 160	
Weight		2.2 lbs (1.0 kg)	
Form Factor (supports EIA/non-EIA standards)		Desktop	
Operating Environment and Certifications			
Power Rating		12VDC, 3A	54VDC
Power Required		Powered by External DC Power Adapter, 100–240V AC, 50/60 Hz	
Maximum Current		100V/0.4A, 240V/0.2A	
Power Consumption (Average/Maximum)	8.3 W / 8.9 W	12.5 W / 13.9 W	75.4 W / 76.3 W 78.7 W / 78.1 W
Total Available PoE Power Budget*	—	—	60 W
Heat Dissipation	30.35 BTU/h	47.4 BTU/h	260.48 BTU/h 268.54 BTU/h
Operating Temperature		32°F to 104°F (0°C to 40°C)	
Storage Temperature		-31°F to 158°F (-35°C to 70°C)	
Humidity		10% to 90% non-condensing	
Noise Level		Fanless 0 dBA	
Operating Altitude		Up to 10 000 ft (3048 m)	
Compliance		FCC, ISSED, CE, UL/cUL, CB	
Certifications		USGv6/IPv6	
Radio Specifications			
Multiple User (MU) MIMO	—	2 × 2	—
Maximum Wi-Fi Speeds	—	1201 Mbps @ 5 GHz, 574 Mbps @ 2.4 GHz	—
Maximum Tx Power	—	21.0 dBm per chain @ 2.4GHz, 19.5 dBm per chain @ 5GHz	—

* Maximum loading on each PoE/+ port is 30 W (802.3at).



Specifications

	FG-50G-DSL	FWF-50G-DSL
Hardware Specifications		
Hardware Accelerated GE WAN Ports	1	
Hardware Accelerated GE RJ45 Ports	3	
Hardware Accelerated GE RJ45 FortiLink Ports (Default)	1	
DSL RJ11 Port	1	
USB Port	1	
Console Port (RJ45)	1	
Internal Storage	—	
Trusted Platform Module (TPM)	☑	
Bluetooth Low Energy (BLE)	☑	
Signed Firmware Hardware Switch	☑	
Antenna Ports (SMA)	—	3
Wireless Interface	—	Dual Radio (2.4 GHz/ 5 GHz), 802.11 a/b/g/n/ac/ax
System Performance — Enterprise Traffic Mix		
IPS Throughput ²	2.25 Gbps	
NGFW Throughput ^{2,4}	1.25 Gbps	
Threat Protection Throughput ^{2,5}	1.1 Gbps	
System Performance		
Firewall Throughput (1518/512/64 byte UDP packets)	5 / 5 / 4 Gbps	
Firewall Latency (64 byte UDP packets)	2.42 μs	
Firewall Throughput (Packets Per Second)	6 Mpps	
Concurrent Sessions (TCP)	720 000	
New Sessions/Second (TCP)	85 000	
Firewall Policies	2000	
IPsec VPN Throughput (512 byte) ¹	4.5 Gbps	
Gateway-to-Gateway IPsec VPN Tunnels	200	
Client-to-Gateway IPsec VPN Tunnels	250	
SSL-VPN Throughput	—	
Concurrent SSL-VPN Users (Recommended Maximum, Tunnel Mode)	—	
SSL Inspection Throughput (IPS, avg. HTTPS) ³	1.3 Gbps	
SSL Inspection CPS (IPS, avg. HTTPS) ³	699	
SSL Inspection Concurrent Session (IPS, avg. HTTPS) ³	74 000	
Application Control Throughput (HTTP 64K) ²	2.8 Gbps	
CAPWAP Throughput (HTTP 64K)	3.8 Gbps	

Note: All performance values are “up to” and vary depending on system configuration.

¹ IPsec VPN performance test uses AES256-SHA256.

² IPS (Enterprise Mix), Application Control, NGFW and Threat Protection are measured with Logging enabled.

³ SSL Inspection performance values use an average of HTTPS sessions of different cipher suites.

	FG-50G-DSL	FWF-50G-DSL
Virtual Domains (Default/Maximum)		5/5
Maximum Number of FortiSwitches Supported		8
Maximum Number of FortiAPs (Total/Tunnel Mode)		16 / 8
Maximum Number of FortiTokens		500
High Availability Configurations	Active-Active, Active-Passive, Clustering	
Dimensions		
Height x Width x Length (inches)	1.7 × 8.5 × 7.0	
Height x Width x Length (mm)	42 × 216 × 178	
Weight	2.14 lbs (0.97 kg)	2.2 lbs (1.0 kg)
Form Factor (supports EIA/non-EIA standards)	Desktop	
Operating Environment and Certifications		
Power Rating	12VDC, 3A	
Power Required	Powered by External DC Power Adapter, 100–240V AC, 50/60 Hz	
Maximum Current	100V/0.2A, 240V/0.1A	100V/0.3A, 240V/0.15A
Power Consumption (Average/Maximum)	12.43 W / 13.01 W	17.74 W / 19.0 W
Heat Dissipation	44.36 BTU/hr	64.79 BTU/h
Operating Temperature	32°F to 104°F (0°C to 40°C)	
Storage Temperature	-31°F to 158°F (-35°C to 70°C)	
Humidity	10% to 90% non-condensing	
Noise Level	Fanless 0 dBA	
Operating Altitude	Up to 10 000 ft (3048 m)	
Compliance	FCC, ISED, CE, UL/cUL, CB	
Certifications	USGv6/IPv6	
xDSL Modem Supported Mode		
vDSL2		☑
ADSL2		☑
ADSL2+		☑
G.DMT		☑
T1.413		☑
G.Lite		☑
xDSL Modem Supported Type		
Annex A, B, I, J, M, L		☑
Radio Specifications		
Multiple User (MU) MIMO	—	2 × 2
Maximum Wi-Fi Speeds	—	1201 Mbps @ 5 GHz, 574 Mbps @ 2.4 GHz
Maximum Tx Power	—	21.0 dBm per chain @ 2.4GHz, 19.5 dBm per chain @ 5GHz

⁴ NGFW performance is measured with Firewall, IPS and Application Control enabled.

⁵ Threat Protection performance is measured with Firewall, IPS, Application Control and Malware Protection enabled.



Specifications

	FG-50G-5G/51G-5G	FWF-50G-5G-II		FG-50G-5G/51G-5G	FWF-50G-5G-II
Hardware Specifications			Height x Width x Length (mm)	40.5 × 216 × 160	42 × 216 × 178
Hardware Accelerated GE WAN Ports	1		Weight	2.2 lbs (1.0 kg)	2.4 lbs (1.1 kg)
Hardware Accelerated GE RJ45 Ports	3		Form Factor (supports EIA/ non-EIA standards)	Desktop	
Hardware Accelerated GE RJ45 FortiLink Ports (Default)	1		Operating Environment and Certifications		
USB Port	1		Power Rating	12VDC, 3A	
Console Port (RJ45)	1		Power Required	Powered by External DC Power Adapter, 100–240V AC, 50/60 Hz	
Internal Storage	— / 64 GB SSD	—	Maximum Current	100V/0.4A, 240V/0.2A	100V AC / 0.4A, 240V AC / 0.2A
Trusted Platform Module (TPM)		☑	Power Consumption (Average/Maximum)	8.3 W / 8.9 W	20.43 W / 23.59 W
Bluetooth Low Energy (BLE)		☑	Heat Dissipation	30.35 BTU/h	80.44 BTU/hr
Signed Firmware Hardware Switch		☑	Operating Temperature	32°F to 104°F (0°C to 40°C)	
Antenna Ports (SMA)	5	3	Storage Temperature	-31°F to 158°F (-35°C to 70°C)	
SIM Slots (Nano SIM)	2	2	Humidity	10% to 90% non-condensing	
Wireless Interface	—	Dual Radio (2.4 GHz/ 5 GHz), 802.11 a/b/g/n/ac/ax	Noise Level	Fanless 0 dBA	21.73 dBA
System Performance — Enterprise Traffic Mix			Operating Altitude	Up to 10 000 ft (3048 m)	
IPS Throughput ²	2.25 Gbps		Compliance	FCC, ISED, CE, UL/cUL, CB	FCC, IC, CE, UL/ cUL, CB
NGFW Throughput ^{2,4}	1.25 Gbps		Certifications	USGv6/IPv6	
Threat Protection Throughput ^{2,5}	1.1 Gbps		Radio Specifications		
System Performance			Multiple User (MU) MIMO	—	2 × 2
Firewall Throughput (1518/512/64 byte UDP packets)	5 / 5 / 4 Gbps		Maximum Wi-Fi Speeds	—	1201 Mbps @ 5 GHz, 574 Mbps @ 2.4 GHz
Firewall Latency (64 byte UDP packets)	2.42 μs		Maximum Tx Power	—	21.0 dBm per chain @ 2.4GHz, 19.5 dBm per chain @ 5GHz
Firewall Throughput (Packets Per Second)	6 Mpps		5G Modem		
Concurrent Sessions (TCP)	720 000		Maximum Tx Power	23 dBm (Power Class 3), 26 dBm (Power Class 2 in B41/n41)	
New Sessions/Second (TCP)	85 000		Regions	All Regions	
Firewall Policies	2000		Modem Model	Telit Cinterion FN990A28-HP (2 SIM Slots, Active/Passive)	
IPsec VPN Throughput (512 byte) ¹	4.5 Gbps		5G Bands	n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n25, n26, n28, n29 (SDL), n30, n38, n40, n41, n48, n66, n71, n75 (SDL), n76 (SDL), n77, n78, n79 (PC1.5 support on n41, n77, n78, n79 bands)	
Gateway-to-Gateway IPsec VPN Tunnels	200		LTE Bands	B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B29 (SDL), B30, B32 (SDL), B34, B38, B39, B40, B41, B42, B43, B46, B48, B66, B71	
Client-to-Gateway IPsec VPN Tunnels	250		UMTS/HSPA+	B1, B2, B4, B5, B6, B8, B19	
SSL-VPN Throughput	—		WCDMA	B1, B2, B4, B5 (B6, B19), B8 (for EU and APAC regions only)	
Concurrent SSL-VPN Users (Recommended Maximum, Tunnel Mode)	—		CDMA 1xRTT/EV-DO Rev A	—	
SSL Inspection Throughput (IPS, avg. HTTPS) ³	1.3 Gbps		GSM/GPRS/EDGE	—	
SSL Inspection CPS (IPS, avg. HTTPS) ³	699		Module Certifications	FCC, IC, RED, NCC, JATE/TELEC, GCF, PTCRB, AT&T, FirstNet, T-Mobile US, Verizon, NTT Docomo, Anatel	
SSL Inspection Concurrent Session (IPS, avg. HTTPS) ³	74 000		Diversity	☑	
Application Control Throughput (HTTP 64K) ²	2.8 Gbps		MIMO	☑	
CAPWAP Throughput (HTTP 64K)	3.8 Gbps		GNSS Bias	☑	
Virtual Domains (Default/Maximum)	5/5		High Availability Configurations Active-Active, Active-Passive, Clustering		
Maximum Number of FortiSwitches Supported	8		Dimensions		
Maximum Number of FortiAPs (Total/Tunnel Mode)	16 / 8		Height x Width x Length (inches)	1.6 × 8.5 × 6.3	1.7 × 8.5 × 7.0
Maximum Number of FortiTokens	500				

Note: All performance values are “up to” and vary depending on system configuration.

¹ IPsec VPN performance test uses AES256-SHA256.

² IPS (Enterprise Mix), Application Control, NGFW and Threat Protection are measured with Logging enabled.

³ SSL Inspection performance values use an average of HTTPS sessions of different cipher suites.

⁴ NGFW performance is measured with Firewall, IPS and Application Control enabled.

⁵ Threat Protection performance is measured with Firewall, IPS, Application Control and Malware Protection enabled.



Subscriptions

Service Category	Service Offering	A-la-carte	Bundles		
			Enterprise Protection	Unified Threat Protection	Advanced Threat Protection
FortiGuard Security Services	IPS — IPS, Malicious/Botnet URLs	•	•	•	•
	Anti-Malware Protection (AMP)—AV, Botnet Domains, Mobile Malware, Virus Outbreak Protection, Content Disarm and Reconstruct ³ , AI-based Heuristic AV, FortiGate Cloud Sandbox	•	•	•	•
	URL, DNS and Video Filtering — URL, DNS and Video ³ Filtering, Malicious Certificate	•	•	•	
	Anti-Spam		•	•	
	AI-based Inline Malware Prevention ³	•	•		
	Data Loss Prevention (DLP) ¹	•	•		
	Attack Surface Security — IoT Device Detection, IoT Vulnerability Correlation and Virtual Patching, Security Rating, Outbreak Check	•	•		
	OT Security—OT Device Detection, OT vulnerability correlation and Virtual Patching, OT Application Control and IPS ¹	•			
	Application Control			-----included with FortiCare Subscription-----	
	Inline CASB ³			-----included with FortiCare Subscription-----	
SD-WAN and SASE Services	SD-WAN Underlay Bandwidth and Quality Monitoring	•			
	SD-WAN Overlay-as-a-Service	•			
	SD-WAN Connector for FortiSASE Secure Private Access	•			
	SASE connector for FortiSASE Secure Edge Management (with 10Mbps Bandwidth) ²	•			
NOC and SOC Services	FortiConverter Service for one time configuration conversion	•	•		
	Managed FortiGate Service—available 24x7, with Fortinet NOC experts performing device setup, network, and policy change management	•			
	FortiGate Cloud—Management, Analysis, and One Year Log Retention	•			
	FortiManager Cloud	•			
	FortiAnalyzer Cloud	•			
	FortiGuard SOCaS—24x7 cloud-based managed log monitoring, incident triage, and SOC escalation service	•			
Hardware and Software Support	FortiCare Essentials ²	•			
	FortiCare Premium	•	•	•	•
	FortiCare Elite	•			
Base Services	Device/OS Detection, GeolIPs, Trusted CA Certificates, Internet Services and Botnet IPs, DDNS (v4/v6), Local Protection, PSIRT Check, Anti-Phishing			-----included with FortiCare Subscription-----	

1. Full features available when running FortiOS 7.4.1.

2. Desktop Models only.

3. Not available for FortiGate/FortiWiFi 40F, 60E, 60F, 80E, and 90E series from 7.4.4 onwards. Not available for FortiGate/FortiWiFi 30G and 50G series in any OS build.

FortiGuard AI-Powered Security Bundles for FortiGate



FortiGuard AI-Powered Security Bundles provide a comprehensive and meticulously curated selection of security services to combat known, unknown, zero-day, and emerging AI-based threats. These services are designed to prevent malicious content from breaching your defenses, protect against web-based threats, secure devices throughout IT/OT/IoT environments, and ensure the safety of applications, users, and data. All bundles include FortiCare Premium Services featuring 24x7x365 availability, one-hour response for critical issues, and next-business-day response for noncritical matters.

FortiCare Services



Fortinet prioritizes customer success through FortiCare Services, optimizing the Fortinet Security Fabric solution. Our comprehensive life-cycle services include Design, Deploy, Operate, Optimize, and Evolve. The FortiCare Elite, one of the service offerings, provides heightened SLAs and swift issue resolution with a dedicated support team. This advanced support option includes an extended end-of-engineering support of 18 months, providing flexibility and access to the intuitive FortiCare Elite portal for a unified view of device and security health, streamlining operational efficiency and maximizing Fortinet deployment performance.



Ordering Information

Product	SKU	Description
FortiGate 50G	FG-50G	5x GE RJ45 ports (including 4x Internal Ports, 1x WAN Ports).
FortiGate 51G	FG-51G	5x GE RJ45 ports (including 4x Internal Ports, 1x WAN Ports), 64GB SSD.
FortiWiFi 50G	FWF-50G-[RC]	5 x GE RJ45 ports (including 4 x Internal Ports, 1 x WAN Ports), Wireless (802.11a/b/g/n/ac/ax). Region Code [RC].
FortiWiFi 51G	FWF-51G-[RC]	5 x GE RJ45 ports (including 4 x Internal Ports, 1 x WAN Ports), Wireless (802.11a/b/g/n/ac/ax), 64GB SSD onboard storage. Region Code [RC].
FortiGate 50G-SFP	FG-50G-SFP	5 x GE RJ45 ports (including 4x Internal Ports, 1 x WAN Ports), 1x SFP port.
FortiWiFi 50G-SFP	FWF-50G-SFP-[RC]	5x GE RJ45 ports (including 4x Internal Ports, 1x WAN Ports), 1x SFP, Wireless (802.11a/b/g/n/ac/ax).
FortiGate 50G-SFP-POE	FG-50G-SFP-POE	3x RJ45 PoE+ ports, 1x RJ45 PoE+ WAN, 1x RJ45 WAN port, 1x SFP port.
FortiGate 51G-SFP-POE	FG-51G-SFP-POE	3x RJ45 PoE+ ports, 1x RJ45 PoE+ WAN, 1x RJ45 WAN port, 1x SFP port, with 64GB SSD storage.
FortiGate 50G-DSL	FG-50G-DSL	5x GE RJ45 ports (including 4x Internal Ports, 1x WAN Ports) with 1x embedded DSL module.
FortiWiFi 50G-DSL	FWF-50G-DSL-[RC]	5x GE RJ45 ports (including 4x Internal Ports, 1x WAN Ports), 1x DSL port, Wireless (802.11a/b/g/n/ac/ax).
FortiGate 50G-5G	FG-50G-5G	5x GE RJ45 ports (including 4x Internal Ports, 1x WAN Ports), with Embedded 3G/4G/LTE/5G wireless wan module, 5 external SMA WWAN antennas.
FortiGate 51G-5G	FG-51G-5G	5x GE RJ45 ports (including 4x Internal Ports, 1x WAN Ports), 5x GE RJ45 ports (including 4x Internal Ports, 1x WAN Ports), with Embedded 3G/4G/LTE/5G wireless wan module, 5 external SMA WWAN antennas, 64GB SSD onboard storage.
FortiWiFi 50G-5G-II	FWF-50G-5G-II	5x GE RJ45 ports (including 1x WAN Port, 4x Internal Ports), Wireless (802.11a/b/g/n/ac/ax), with Embedded 3G/4G/LTE/5G HP wireless wan module, 8 external SMA WWAN antennas.
Optional Accessories		
Rack Mount Tray	SP-RACKTRAY-02	Rack mount tray for all FortiGate E, F, and G series desktop models are backwards compatible with SP-RackTray-01.
Mounting Ear Bracket	SP-EAR-FG90G-10	Mounting Ear brackets for FWF-50G series and FG-90/91G 10 pairs pack.
Wall Mount Kit	SP-FG60F-MOUNT-20	Pack of 20 wall mount kits for FG/FWF-50G series, FG/FWF-60F series, and FG/FWF-80F series.
AC Power Adaptor	SP-FG-40F-PA-10 (-XX)	Pack of 10 AC power adaptors for FG/FWF-50G/-DSL/-5G series and FG/FWF-40F, come with interchangeable power plugs. (XX=various countries code)
	SP-FG50G-POE-PDC-5	Pack of 5 AC power adaptors for FG-50/51G-SFP-POE, power cable SP-FGPCOR-XX sold separately.

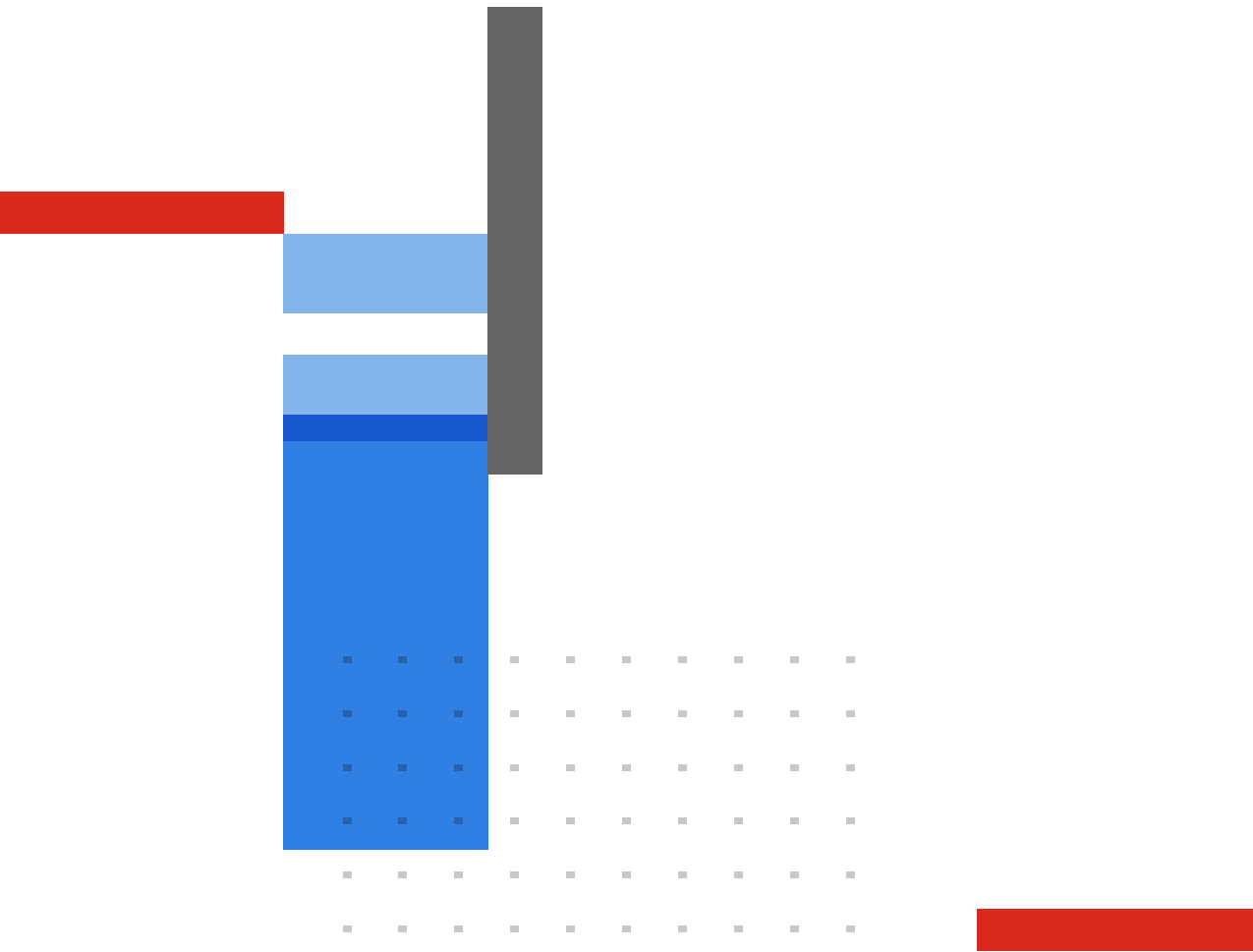
[RC] = regional code: A, B, D, E, F, I, J, N, P, S, V, and Y

Visit <https://www.fortinet.com/resources/ordering-guides> for related ordering guides.



Fortinet Corporate Social Responsibility Policy

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