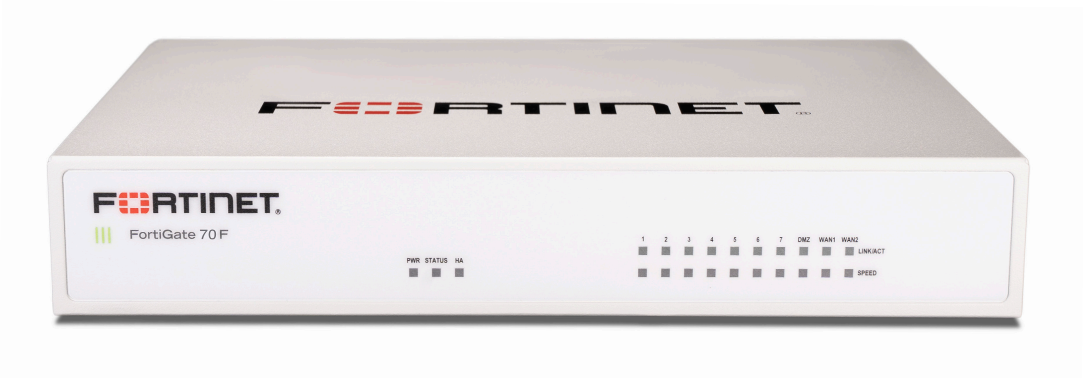
FORTINET

DATA SHEET

FortiGate® 70F Series

FG-70F and FG-71F

Next Generation Firewall
Secure SD-WAN



The FortiGate 70F series provides a fast and secure SD-WAN solution in a compact fanless desktop form factor for enterprise branch offices and mid-sized businesses. Protects against cyber threats with system-on-a-chip acceleration and industry-leading secure SD-WAN in a simple, affordable, and easy to deploy solution. Fortinet's Security-Driven Networking approach provides tight integration of the network to the new generation of security.

Security

- Identifies thousands of applications inside network traffic for deep inspection and granular policy enforcement
- Protects against malware, exploits, and malicious websites in both encrypted and non-encrypted traffic
- Prevent and detect against known and unknown attacks using continuous threat intelligence from AI-powered FortiGuard Labs security services

Performance

- Delivers industry's best threat protection performance and ultra-low latency using purpose-built security processor (SPU) technology
- Provides industry-leading performance and protection for SSL encrypted traffic

Certification

- Independently tested and validated for best-in-class security effectiveness and performance
- Received unparalleled third-party certifications from NSS Labs

Networking

- Delivers advanced networking capabilities that seamlessly integrate with advanced layer 7 security and virtual domains (VDOMs) to offer extensive deployment flexibility, multi-tenancy and effective utilization of resources
- Delivers high-density, flexible combination of various high-speed interfaces to enable best TCO for customers for data center and WAN deployments

Management

- Includes a management console that is effective, simple to use, and provides comprehensive network automation and visibility
- Provides Zero Touch Integration with Fortinet's Security Fabric's Single Pane of Glass Management
- Predefined compliance checklist analyzes the deployment and highlights best practices to improve overall security posture

Security Fabric

- Enables Fortinet and Fabric-ready partners' products to provide broader visibility, integrated end-to-end detection, threat intelligence sharing, and automated remediation

Firewall	IPS	NGFW	Threat Protection*	Interfaces
10 Gbps	1.4 Gbps	1 Gbps	800 Mbps	Multiple GE RJ45 | Variants with internal storage

* Refer to specification table for details.

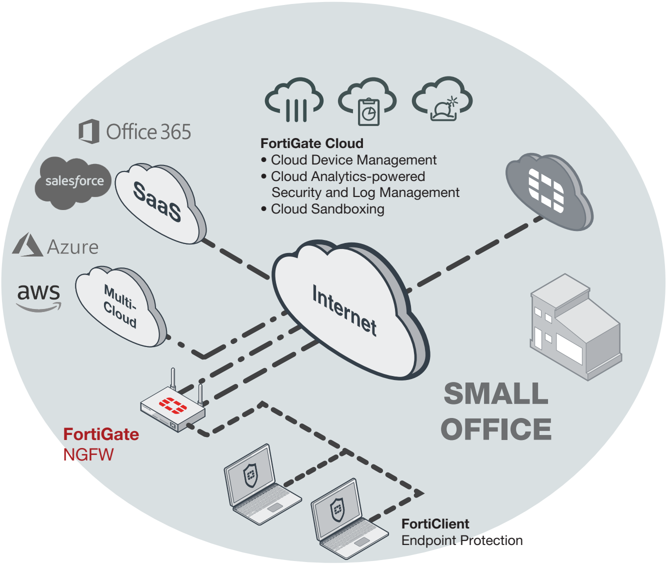
DEPLOYMENT

Next Generation Firewall (NGFW)

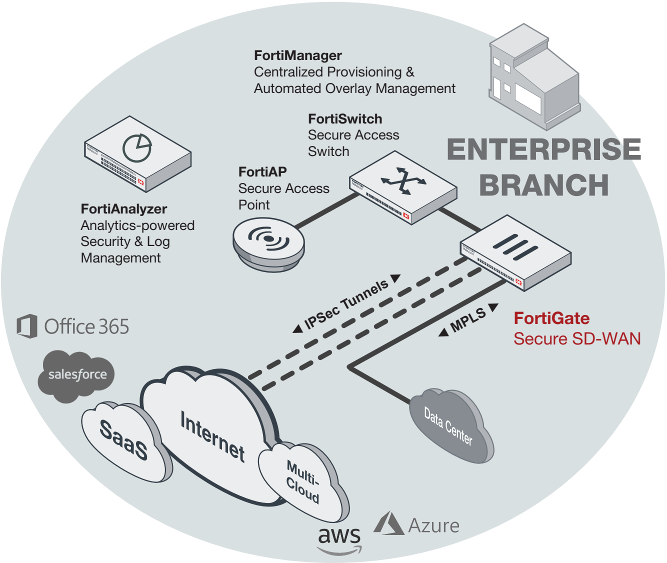
- Reduce the complexity and maximize your ROI by integrating threat protection security capabilities into a single high-performance network security appliance, powered by Fortinet's Security Processing Unit (SPU)
- Full visibility into users, devices, applications across the entire attack surface and consistent security policy enforcement irrespective of asset location
- Protect against network exploitable vulnerabilities with industry-validated IPS that offers low latency and optimized network performance
- Automatically block threats on decrypted traffic using the Industry's highest SSL inspection performance, including the latest TLS 1.3 standard with mandated ciphers
- Proactively block newly discovered sophisticated attacks in real-time with AI-powered FortiGuard Labs and advanced threat protection services included in the Fortinet Security Fabric

Secure SD-WAN

- Consistent business application performance with accurate detection, dynamic WAN path steering and optimization
- Multi-cloud access for faster SaaS adoption with end-to-end optimization
- Simplified and intuitive workflow with FortiManger for management and zero touch deployment
- Strong security posture with next generation firewall and real-time threat protection



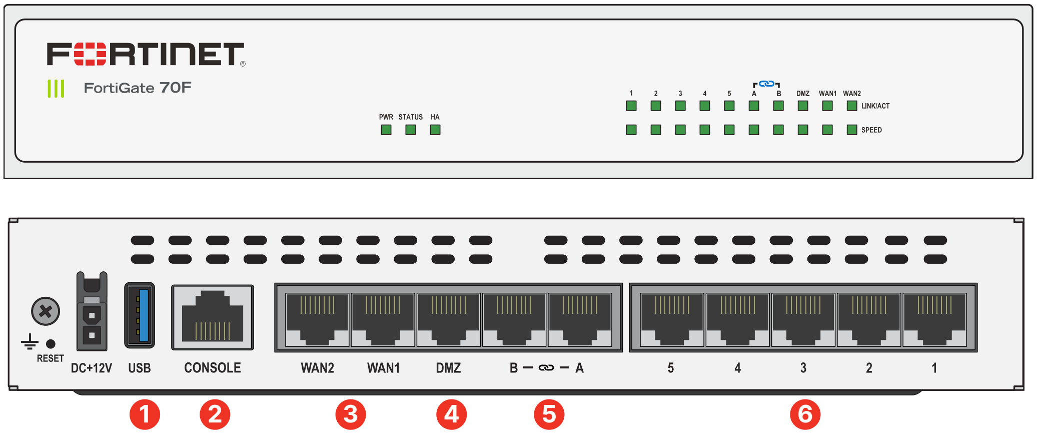
Small Office Deployment (NGFW)



Enterprise Branch Deployment (Secure SD-WAN)

HARDWARE

FortiGate 70F/ 71F



Interfaces

1. 1x USB Port
2. 1x Console Port
3. 2x GE RJ45 WAN Ports
4. 1x GE RJ45 DMZ Port
5. 2x GE RJ45 FortiLink Ports
6. 5x GE RJ45 Internal Ports

Hardware Features

SOC4 Desktop / 128GB

Powered by Purpose-built Secure SD-WAN ASIC SOC4

- Combines a RISC-based CPU with Fortinet's proprietary Security Processing Unit (SPU) content and network processors for unmatched performance
- Delivers industry's fastest application identification and steering for efficient business operations
- Accelerates IPsec VPN performance for best user experience on direct internet access
- Enables best of breed NGFW Security and Deep SSL Inspection with high performance
- Extends security to access layer to enable SD-Branch transformation with accelerated and integrated switch and access point connectivity
- Reduces environmental footprint by saving on average over 60% in power consumption compared to previous generation of FortiGate models

3G/4G WAN Connectivity

The FortiGate 70F Series includes a USB port that allows you to plug in a compatible third-party 3G/4G USB modem, providing additional WAN connectivity or a redundant link for maximum reliability.

Compact and Reliable Form Factor

Designed for small environments, you can place it on a desktop or wall-mount it. It is small, lightweight, yet highly reliable with superior MTBF (Mean Time Between Failure), minimizing the chance of a network disruption.

Secure Access Layer

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

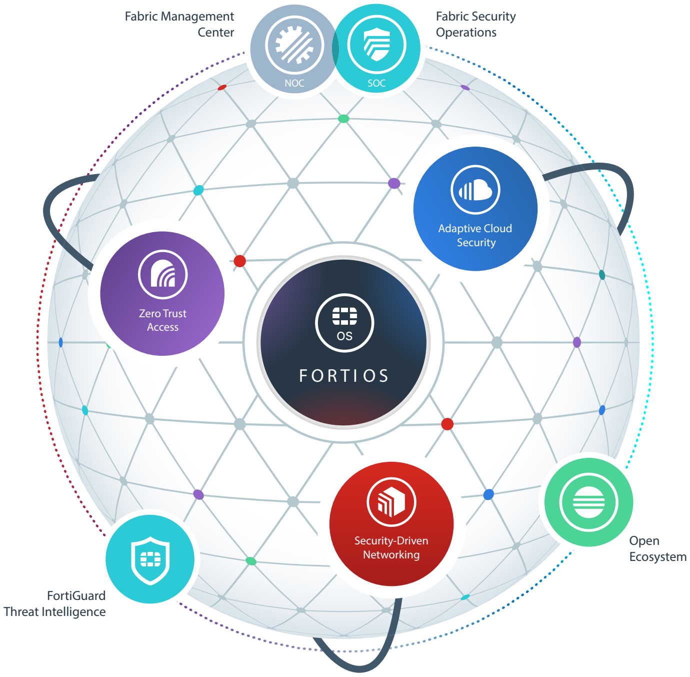
FORTINET SECURITY FABRIC

Security Fabric

The industry's highest-performing cybersecurity platform, powered by FortiOS, with a rich ecosystem designed to span the extended digital attack surface, delivering fully automated, self-healing network security.

- **Broad**: Coordinated detection and enforcement across the entire digital attack surface and lifecycle with converged networking and security across edges, clouds, endpoints and users
- **Integrated**: Integrated and unified security, operation, and performance across different technologies, location, deployment options, and the richest Ecosystem
- **Automated**: Context aware, self-healing network & security posture leveraging cloud-scale and advanced AI to automatically deliver near-real-time, user-to-application coordinated protection across the Fabric

The Fabric empowers organizations of any size to secure and simplify their hybrid infrastructure on the journey to digital innovation.



FortiOS™ Operating System

FortiOS, Fortinet's leading operating system enable the convergence of high performing networking and security across the Fortinet Security Fabric delivering consistent and context-aware security posture across network endpoint, and clouds. The organically built best of breed capabilities and unified approach allows organizations to run their businesses without compromising performance or protection, supports seamless scalability, and simplifies innovation consumption.

The release of FortiOS 7 dramatically expands the Fortinet Security Fabric's ability to deliver consistent security across hybrid deployment models consisting on appliances, software and As-a-Service with SASE, ZTNA and other emerging cybersecurity solutions.

SERVICES

FortiGuard™ Security Services

FortiGuard Labs offers real-time intelligence on the threat landscape, delivering comprehensive security updates across the full range of Fortinet's solutions. Comprised of security threat researchers, engineers, and forensic specialists, the team collaborates with the world's leading threat monitoring organizations and other network and security vendors, as well as law enforcement agencies.

FortiCare™ Services

Fortinet is dedicated to helping our customers succeed, and every year FortiCare services help thousands of organizations get the most from their Fortinet Security Fabric solution. We have more than 1000 experts to help accelerate technology implementation, provide reliable assistance through advanced support, and offer proactive care to maximize security and performance of Fortinet deployments.

SPECIFICATIONS

	FORTIGATE 70F	FORTIGATE 71F
Hardware Specifications		
GE RJ45 WAN / DMZ Ports	2 / 1	2 / 1
GE RJ45 Internal Ports	5	5
GE RJ45 FortiLink Ports (Default)	2	2
Wireless Interface	–	–
USB Ports	1	1
Console (RJ45)	1	1
Internal Storage	–	1 × 128 GB SSD
Trusted Platform Module (TPM)	No	No
Bluetooth Low Energy (BLE)	No	No
System Performance* — Enterprise Traffic Mix		
IPS Throughput [2]	1.4 Gbps	
NGFW Throughput [2, 4]	1 Gbps	
Threat Protection Throughput [2, 5]	800 Mbps	
System Performance and Capacity		
Firewall Throughput (1518 / 512 / 64 byte UDP packets)	10/10/6 Gbps	
Firewall Latency (64 byte UDP packets)	2.54 μs	
Firewall Throughput (Packets Per Second)	9 Mpps	
Concurrent Sessions (TCP)	1.5 M	
New Sessions/Second (TCP)	35 000	
Firewall Policies	5000	
IPsec VPN Throughput (512 byte) [1]	6.1 Gbps	
Gateway-to-Gateway IPsec VPN Tunnels	200	
Client-to-Gateway IPsec VPN Tunnels	500	
SSL-VPN Throughput[6]	405 Mbps	
Concurrent SSL-VPN Users (Recommended Maximum, Tunnel Mode)	200	
SSL Inspection Throughput (IPS, avg. HTTPS) [3]	700 Mbps	
SSL Inspection CPS (IPS, avg. HTTPS) [3]	500	
SSL Inspection Concurrent Session (IPS, avg. HTTPS) [3]	100 000	
Application Control Throughput (HTTP 64K) [2]	1.8 Gbps	
CAPWAP Throughput (HTTP 64K)	8.5 Gbps	
Virtual Domains (Default / Maximum)	10 / 10	
Maximum Number of FortiSwitches Supported	16	
Maximum Number of FortiAPs (Total / Tunnel Mode)	64 / 32	
Maximum Number of FortiTokens	500	
High Availability Configurations	Active-Active, Active-Passive, Clustering	
Dimensions		
Height x Width x Length (inches)	1.5 × 8.5 × 6.3	
Height x Width x Length (mm)	38.5 × 216 × 160 mm	
Weight	2.23 lbs (1.01 kg)	
Form Factor	Desktop	

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.
6. Uses RSA-2048 certificate.

SPECIFICATIONS

	FORTIGATE 70F	FORTIGATE 71F
Operating Environment and Certifications		
Power Rating	12VDC, 3A	
Power Required	Powered by External DC Power Adapter, 100–240V AC, 50/60 Hz	
Maximum Current	100VAC/1.0A, 240VAC/0.6A	
Power Consumption (Average / Maximum)	10.17 W / 12.43 W	17.2 W / 18.7 W
Heat Dissipation	63.1 BTU/hr	63.8 BTU/hr
Operating Temperature	32°–104°F (0°–40°C)	
Storage Temperature	-31°–158°F (-35°–70°C)	
Humidity	Humidity 10%–90% non-condensing	
Noise Level	Fanless 0 dBA	
Operating Altitude	Up to 7400 ft (2250 m)	
Compliance	FCC, ICES, CE, RCM, VCCI, BSMI, UL/cUL, CB	
Certifications	ICSA Labs: Firewall, IPsec, IPS, Antivirus, SSL-VPN	

ORDERING INFORMATION

Product	SKU	Description
FortiGate 70F	FG-70F	10x GE RJ45 ports (including 7x Internal ports, 2x WAN ports, 1x DMZ port).
FortiGate 71F	FG-71F	10x GE RJ45 ports (including 7x Internal ports, 2x WAN ports, 1x DMZ port), 128 GB SSD onboard storage.
Optional Accessories		
Rack Mount Tray	SP-RACKTRAY-02	Rack mount tray for all FortiGate E series and F series desktop models are backwards compatible with SP-RackTray-01.
AC Power Adaptor	SP-FG60E-PDC-5	Pack of 5 AC power adaptors for FG/FWF 60E/61E, FG/FWF 60F/61F, FG-70F/71F, and FG-80E/81E.
Wall Mount Kit	SP-FG60F-MOUNT-20	Pack of 20 wall mount kits for FG/FWF-60F, FG-70F/71F and FG/FWF-80F series.

BUNDLES

FortiGuard Bundle

FortiGuard Labs delivers a number of security intelligence services to augment the FortiGate firewall platform. You can easily optimize the protection capabilities of your FortiGate with one of these FortiGuard Bundles.

Bundles	Enterprise Protection	SMB Protection	Unified Threat Protection	Advanced Threat Protection
FortiCare	24×7	24×7	24×7	24×7
FortiGuard App Control Service	•	•	•	•
FortiGuard IPS Service	•	•	•	•
FortiGuard Advanced Malware Protection (AMP) — Antivirus, Mobile Malware, Botnet, CDR, Virus Outbreak Protection and FortiSandbox Cloud Service	•	•	•	•
FortiGuard Web and Video[1] Filtering Service	•	•	•	
FortiGuard Antispam Service	•	•	•	
FortiGuard Security Rating Service	•			
FortiGuard IoT Detection Service	•			
FortiGuard Industrial Service	•			
FortiConverter Service	•			
FortiGate Cloud Subscription		•		

[1] Available when running FortiOS 7.0

www.fortinet.com