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Overview

The FortiGate FortiWiFi 80F series provides an application-centric, scalable, and secure SDWAN solution in a compact, fanless, desktop form factor for enterprise branch offices and midsized businesses with integrated WiFi-6 (802.11ax). Protects against cyber threats with systemon-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.

Firewall	IPS	NGFW	Threat Protection	Interfaces
10 Gbps	1.4 Gbps	1 Gbps	900 Mbps	Multiple GE RJ45	POE	DSL	3G4G	Variants with internal storage	WiFi

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 best 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
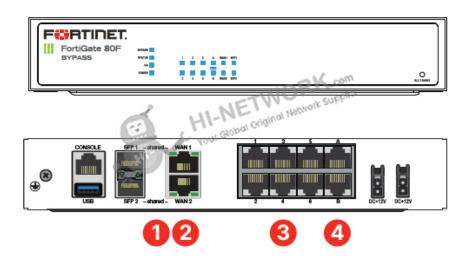
Management

● 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 checklists analyze the deployment and highlight best practices to improve the 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

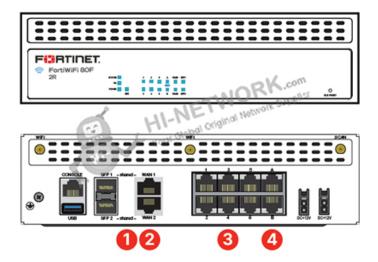# Hardware

FortiGate 80F/80F-Bypass

FortiGate 80F-POE

Interfaces

(1)	2x GE RJ45/SFP Shared Media Ports	(3)	6x GE RJ45* Ports
(2)	2x WAN GE RJ45 Ports, FG80F-Bypass model only: 1x Bypass GE RJ45 Port Pair, (WAN1 and Port1, default configuration)	(4)	2x GE RJ45* FortiLink Ports

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

Superior Wireless Coverage

A built-in dual-band, dual-stream access point is integrated on the FortiWiFi 80F-2R series which provides the industry's latest high-speed WiFi-6 (802.11ax) wireless access.

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.

Trusted Platform Module

The FortiGate/FortiWiFi 80F 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.

Bypass WAN/LAN Mode

The FortiGate-80F-Bypass offers a pair of bypass ports that help organizations avoid network communication interruption due to device faults and improve network reliability

Various WAN Connectivity Options

The FortiGate 80F Series includes a 3.0 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

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 and dynamic WAN path steering on any bestperforming WAN transport

● Accelerated Multi-cloud access for faster SaaS adoption with cloud-on-ramp

● Self-healing networks with WAN edge high availability, subsecond traffic switchover-based and real-time bandwidth compute-based traffic steering

● Automated Overlay tunnels provides encryption and abstracts physical hybrid WAN making it simple to manage

● Simplified and intuitive workflow with FortiManger for management and zero touch deployment

● Enhanced analytics both real-time and historical provides visibility into network performance and identify anomalies

● Strong security posture with next generation firewall and real- time threat protection

Fabric Security

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

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 1,000 experts to help accelerate technology implementation, provide reliable assistance through advanced support, and offer proactive care to maximize security and performance of Fortinet deployments.

FortiGate 80F

Datasheet

Get More Information

Do you have any question about the FG-80F?

Contact us now via info@hi-network.com.

Specification

FortiGate 80F Specification			
Model	FortiGate 80F	FortiGate 80F-BYPASS	FortiGate 80F-POE
Hardware Specifications			
GE RJ45/SFP Shared Media Pairs	2	2	2
GE RJ45 Internal Ports	6	6	—
GE RJ45 FortiLink Ports (Default)	2	2	—
GE RJ45 PoE/+ Ports	—	—	6
GE RJ45 PoE/+ FortiLink Ports (Default)	—	—	2
Bypass GE RJ45 Port Pair (WAN1 & Port1, default configuration)	—	Yes	—
Wireless Interface	—	—	—
USB Ports 3.0	1	1	1
Console (RJ45)	1	1	1
Internal Storage	—	—	—
Trusted Platform Module (TPM)	Yes	Yes	Yes
Bluetooth Low Energy (BLE)	Yes	Yes	Yes
System Performance — Enterprise Traffic Mix			
IPS Throughput2	1.4 Gbps		
NGFW Throughput	1 Gbps		
Threat Protection Throughput	900 Mbps		
System Performance			
Firewall Throughput (1518 / 512 / 64 byte UDP packets)	10/10/7 Gbps		
Firewall Latency (64 byte UDP packets)	3.23 µs		
Firewall Throughput (Packets Per Second)	10.5 Mpps		
Concurrent Sessions (TCP)	1.5 Million		
New Sessions/Second (TCP)	45,000		
Firewall Policies	5,000		

IPsec VPN Throughput (512 byte)	6.5 Gbps		
Gateway-to-Gateway IPsec VPN Tunnels	200		
Client-to-Gateway IPsec VPN Tunnels	2,500		
SSL-VPN Throughput	950 Mbps		
Concurrent SSL-VPN Users (Recommended Maximum, Tunnel Mode)	200		
SSL Inspection Throughput (IPS, avg. HTTPS)	715 Mbps		
SSL Inspection CPS (IPS, avg. HTTPS)	700		
SSL Inspection Concurrent Session (IPS, avg. HTTPS)	100,000		
Application Control Throughput (HTTP 64K)	1.8 Gbps		
CAPWAP Throughput (HTTP 64K)	9 Gbps		
Virtual Domains (Default / Maximum)	10 / 10		
Maximum Number of FortiSwitches Supported	16		
Maximum Number of FortiAPs (Total / Tunnel Mode)	96 / 48		
Maximum Number of FortiTokens	500		
High Availability Configurations	Active-Active, Active-Passive, Clustering		
Dimensions			
Height x Width x Length (inches)	1.6 x 8.5 x 7.0	1.6 x 8.5 x 7.0	2.4 x 8.5 x 7.0
Weight	2.4 lbs (1.1 kg)	2.6 lbs (1.2 kg)	3.1 lbs (1.4 kg)
Form Factor	Desktop/Wall Mount/Rack Tray		
Environment			
Input Rating	12V DC, 3A (dual redundancy optional)	12V DC, 3A (dual redundancy optional)	+54V DC, 3A (dual redundancy optional)
Power Required (Redundancy Optional)	Powered by 2 External DC Power Adapters, 100–240V AC, 50/60 Hz		
Maximum Current	115VAC/0.4A, 230VAC/0.2A	115VAC/0.4A, 230VAC/0.2A	115VAC/2.2A, 230VAC/1.1A
Heat Dissipation	52.55 BTU/h	52.55 BTU/h	402.26 BTU/h
Operating Temperature	32–104°F (0–40°C)		
Storage Temperature	-31–158°F (-35–70°C)		
Humidity	10–90% non-condensing		
Operating Altitude	Up to 16,404 ft (5,000 m)		
Compliance			
Safety	FCC, ICES, CE, RCM, VCCI, BSMI, UL/cUL, CB		
Certifications			
	ICSA Labs: Firewall, IPsec, IPS, Antivirus, SSL-VPN		

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