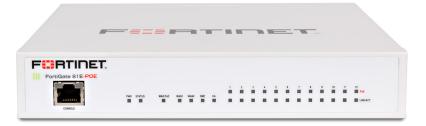
# FERTINET.

#### DATA SHEET

# FortiGate<sup>®</sup> 80E Series

FortiGate 80E, 80E-POE, FortiGate 81E, and 81E-POE

Secure SD-WAN Next Generation Firewall



The FortiGate 80E series provides an application-centric, scalable 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
- Prevents and detects against known attacks using continuous threat intelligence from AI-powered FortiGuard Labs security services
- Proactively blocks unknown sophisticated attacks in realtime with the Fortinet Security Fabric integrated AI-powered FortiSandbox

#### Performance

- Engineered for Innovation using Fortinet's purpose-built security processors (SPU) to deliver the industry's best threat protection performance and ultra-low latency
- Provides industry-leading performance and protection for SSL encrypted traffic including the first firewall vendor to provide TLS 1.3 deep inspection

#### Certification

- Independently tested and validated best security effectiveness and performance
- Received unparalleled third-party certifications from NSS Labs, ICSA, Virus Bulletin, and AV Comparatives

#### Networking

- Dynamic Path Selection over any WAN transport to provide better application experience based on self-healing SD-WAN capabilities
- Advanced routing, Scalable VPN, multi-cast and IPV4/IPV6 forwarding powered by purpose-built network processors

#### Management

- SD-WAN Orchestration provides intuitive and simplified workflow for centralized management and provisioning of business policies in a few easy clicks
- Expedited deployment with Zero touch provisioning well-suited for large and distributed infrastructure
- Automated VPN tunnels for flexible hub-to-spoke and full-mesh deployment at scale to provide bandwidth aggregation and encrypted WAN paths
- 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
- Automatically builds Network Topology visualizations which discover IoT devices and provide complete visibility into Fortinet and Fabric-ready partner products

Firewall	IPS	NGFW	Threat Protection	Interfaces
4 Gbps	450 Mbps	360 Mbps	250 Mbps	Multiple GE RJ45   Variants with internal storage   Variants with PoE/+ interfaces

### Deployment

# 

#### Next Generation Firewall (NGFW)

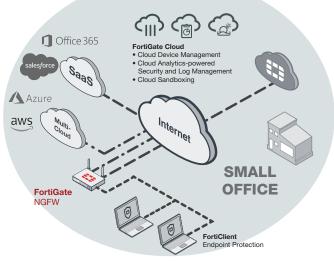
- Reduce the complexity and maximize your ROI by integrating threat protection security capabilities into a single highperformance network security appliance, powered by Fortinet's Security Processing Unit (SPU)
- Full visibility into users, devices, applications across the entire attack surface and consistent security policy enforcement irrespective of asset location
- Protect against network exploitable vulnerabilities with industryvalidated 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 Al-powered FortiGuard Labs and advanced threat protection services included in the Fortinet Security Fabric

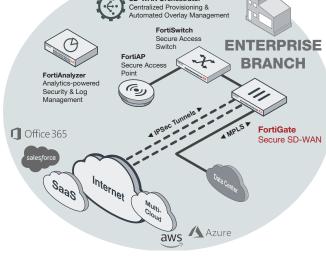
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#### Secure SD-WAN

- Consistent business application performance with accurate detection, dynamic WAN path steering on any best-performing 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 SD-WAN Orchestrator 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 realtime threat protection

SD-WAN Orchestrator



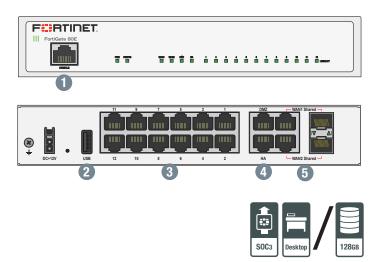


FortiGate 80E deployment in Small Office (NGFW)

FortiGate 80E deployment in Enterprise Branch (Secure SD-WAN)

#### Hardware

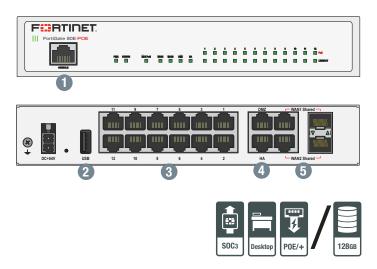
#### FortiGate 80E/81E



#### Interfaces

- 1. Console Port
- 2. USB Port
- 3. 12x GE RJ45 Ports
- 4. 2x GE RJ45 DMZ/HA Ports
- 5. 2x GE RJ45/SFP Shared Media Pairs

#### FortiGate 80E/81E-POE



#### Interfaces

- 1. Console Port
- 2. USB Port
- 3. 12x GE RJ45 PoE/+ Ports
- 4. 2x GE RJ45 DMZ/HA Ports
- 5. 2x GE RJ45/SFP Shared Media Pairs

#### Powered by SPU SoC3

 Combines a RISC-based CPU with Fortinet's proprietary SPU content and network processors for unmatched performance



- Simplifies appliance design and enables breakthrough performance for smaller networks
- Supports firewall acceleration across all packet sizes for maximum throughput
- Delivers accelerated UTM content processing for superior performance and protection
- Accelerates VPN performance for high speed and secure remote access

#### **3G/4G WAN Connectivity**

The FortiGate 80E 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.



## **Fortinet Security Fabric**

#### **Security Fabric**

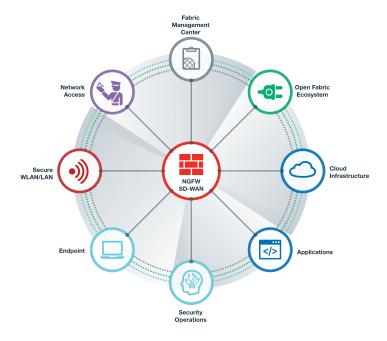
The Security Fabric is the cybersecurity platform that enables digital innovations. It delivers broad visibility of the entire attack surface to better manage risk. Its unified and integrated solution reduces the complexity of supporting multiple-point products, while automated workflows increase operational speeds and reduce response times across the Fortinet deployment ecosystem. The Fortinet Security Fabric overs the following key areas under a single management center:

- Security-Driven Networking that secures, accelerates, and unifies the network and user experience
- Zero Trust Network Access that identifies and secures users and devices in real-time, on and off of the network
- Dynamic Cloud Security that protects and controls cloud infrastructures and applications
- Al-Driven Security Operations that automatically prevents, detects, isolates, and responds to cyber threats

#### FortiOS

FortiGates are the foundation of the Fortinet Security Fabric—the core is FortiOS. All security and networking capabilities across the entire FortiGate platform are controlled with one intuitive operating system. FortiOS reduces complexity, costs, and response times by truly consolidating next-generation security products and services into one platform.

- A truly consolidated platform with a single OS and pane-of-glass for across the entire digital attack surface.
- Industry-leading protection: NSS Labs Recommended, VB100, AV Comparatives, and ICSA validated security and performance.
- Leverage the latest technologies such as deception-based security.



- Control thousands of applications, block the latest exploits, and filter web traffic based on millions of real-time URL ratings in addition to true TLS 1.3 support.
- Automatically prevent, detect, and mitigate advanced attacks within minutes with an integrated Al-driven security and advanced threat protection.
- Improve and unify the user experience with innovative SD-WAN capabilities with the ability to detect, contain, and isolate threats with automated segmentation.
- Utilize SPU hardware acceleration to boost network security performance.

## Services



#### FortiGuard<sup>™</sup> Security Services

FortiGuard Labs offer 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.

# G

#### FortiCare<sup>™</sup> Support Services

Our FortiCare customer support team provides global technical support for all Fortinet products. With support staff in the Americas, Europe, Middle East, and Asia, FortiCare offers services to meet the needs of enterprises of all sizes.

For more information, please refer to forti.net/fortiguard and forti.net/forticare

# **Specifications**

	FORTIGATE 80E	FORTIGATE 80E-POE	FORTIGATE 81E	FORTIGATE 81E-POE			
Hardware Specifications							
GE RJ45/SFP Shared Media Pairs	2	2	2	2			
GE RJ45 Ports	12	—	12	—			
GE RJ45 PoE/+ Ports	—	12	—	12			
GE RJ45 DMZ/HA Ports	2	2	2	2			
USB Ports	1	1	1	1			
Console (RJ45)	1	1	1	1			
Internal Storage	—	—	1x 128 GB SSD	1x 128 GB SSD			
System Performance — Enterprise Traffic Mix							
IPS Throughput <sup>2</sup>		450 N	1bps				
NGFW Throughput <sup>2,4</sup>		360 N	1bps				
Threat Protection Throughput <sup>2,5</sup>		250 N	1bps				
System Performance							
Firewall Throughput (1518 / 512 / 64 byte UDP packets)		4/4/4	Gbps				
Firewall Latency (64 byte UDP packets)		3 µ					
Firewall Throughput (Packets Per Second)		6 Mp	ps				
Concurrent Sessions (TCP)		1.3 Million					
New Sessions/Second (TCP)		30,000					
Firewall Policies		5,000					
IPsec VPN Throughput (512 byte) 1	2.5 Gbps						
Gateway-to-Gateway IPsec VPN Tunnels	200						
Client-to-Gateway IPsec VPN Tunnels	2,500						
SSL-VPN Throughput		200 Mbps					
Concurrent SSL-VPN Users (Recommended Maximum, Tunnel Mode)	200						
SSL Inspection Throughput (IPS, avg. HTTPS) <sup>3</sup>		135 Mbps					
SSL Inspection CPS (IPS, avg. HTTPS) <sup>3</sup>		135					
SSL Inspection Concurrent Session (IPS, avg. HTTPS) <sup>3</sup>		95,000					
Application Control Throughput (HTTP 64K) <sup>2</sup>		900 Mbps					
CAPWAP Throughput (HTTP 64K)		920 Mbps					
Virtual Domains (Default / Maximum)		10 / 10					
Maximum Number of FortiSwitches Supported		16					
Maximum Number of FortiAPs (Total / Tunnel Mode)		32 /	16				
Maximum Number of FortiTokens		500					
High Availability Configurations	Active / Active, Active / Passive, Clustering						
Dimensions							
Height x Width x Length (inches)		1.65 x 8.5 x 7					
Height x Width x Length (mm)		42 x 216 x 178					
Weight		2.65 lbs (1.2 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.



# **Specifications**

FORTIGATE 80E	FORTIGATE 80E-POE	FORTIGATE 81E	FORTIGATE 81E-POE	
12Vdc, 3A	54Vdc, 2.78A	12Vdc, 3A	54Vdc, 2.78A	
Powered by External DC Power Adapter, 100–240V AC, 50–60 Hz				
100V AC / 0.25A,	115V AC / 1.2A,	100V AC / 0.27A,	115V AC / 1.2A,	
240V AC / 0.11A		E TOT / TO / OTTER	230V AC / 0.6A	
—	110 W	—	110 W	
18 W / 25 W	20 W / 137 W	20 W / 72 W	20 W / 137 W	
85.3 BTU/h	467.5 BTU/h	92.1 BTH/h	467.5 BTU/h	
32–104°F (0–40°C)				
-31–158°F (-35–70°C)				
10–90% non-condensing				
Fanless 0 dBA	35 dBA	Fanless 0 dBA	35 dBA	
Up to 16,404 ft (5,000 m)				
FCC, ICES, CE, RCM, VCCI, BSMI, UL/cUL, CB				
	ICSA Labs: Firewall, IPsec	, IPS, Antivirus, SSL-VPN		
	100V AC / 0.25A, 240V AC / 0.11A — 18 W / 25 W 85.3 BTU/h Fanless 0 dBA	12Vdc, 3A 54Vdc, 2.78A   Powered by External DC Power Ad   100V AC / 0.25A, 115V AC / 1.2A,   240V AC / 0.11A 230V AC / 0.6A   — 110 W   18 W / 25 W 20 W / 137 W   85.3 BTU/h 467.5 BTU/h   32–104°F -31–158°F   10–90% non Fanless 0 dBA 35 dBA   Up to 16,404 FCC, ICES, CE, RCM, VC   ICSA Labs: Firewall, IPsec ISH	12Vdc, 3A 54Vdc, 2.78A 12Vdc, 3A   Powered by External DC Power Adapter, 100–240V AC, 50–60   100V AC / 0.25A, 115V AC / 1.2A, 100V AC / 0.27A,   240V AC / 0.11A 230V AC / 0.6A 240V AC / 0.12A    110 W    18 W / 25 W 20 W / 137 W 20 W / 72 W   85.3 BTU/h 467.5 BTU/h 92.1 BTH/h   32–104°F (0–40°C)  -31–158°F (-35–70°C)   10–90% non-condensing 10–90% non-condensing   Fanless 0 dBA 35 dBA Fanless 0 dBA   Up to 16,404 ft (5,000 m) FCC, ICES, CE, RCM, VCCI, BSMI, UL/cUL, CB   ICSA Labs: Firewall, IPsec, IPS, Antivirus, SSL-VPN ICSA Labs: Firewall, IPsec, IPS, Antivirus, SSL-VPN	

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

# **Order Information**

Product	SKU	Description
FortiGate 80E	FG-80E	14x GE RJ45 ports (including 1x DMZ port, 1x Mgmt port, 1x HA port, 12x switch ports), 2x Shared Media pairs (including 2x GE RJ45 ports, 2x SFP slots)
FortiGate 80E-PoE	FG-80E-POE	16x GE RJ45 ports (including 2x WAN ports, 1x DMZ port, 1x HA port, 12x PoE ports)
FortiGate 81E	FG-81E	14x GE RJ45 ports (including 1x DMZ port, 1x Mgmt port, 1x HA port, 12 x switch ports), 2x Shared Media pairs (including 2x GE RJ45 ports, 2x SFP slots), 128 GB onboard storage
FortiGate 81E-PoE	FG-81E-POE	16x GE RJ45 ports (including 2x WAN ports, 1x DMZ port, 1x HA port, 12x PoE ports). 128 GB onboard storage

#### **Bundles**



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.

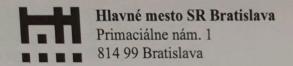
Bundles	360 Protection	Enterprise Protection	Unified Threat Protection	Threat Protection
FortiCare	ASE 1	24x7	24x7	24x7
FortiGuard App Control Service	٠	•	٠	•
FortiGuard IPS Service	•	•	•	•
FortiGuard Advanced Malware Protection (AMP) — Antivirus, Mobile Malware, Botnet, CDR, Virus Outbreak Protection and FortiSandbox Cloud Service	•	•	•	•
FortiGuard Web Filtering Service	•	•	•	
FortiGuard Antispam Service	•	•	•	
FortiGuard Security Rating Service	•	•		
FortiGuard Industrial Service	•	•		
FortiGuard IoT Detection Service <sup>2</sup>	•	•		
FortiConverter Service	•	•		
IPAM Cloud <sup>2</sup>	•			
SD-WAN Orchestrator Entitlement <sup>2</sup>	•			
SD-WAN Cloud Assisted Monitoring	•			
SD-WAN Overlay Controller VPN Service	•			
FortiAnalyzer Cloud	•			
FortiManager Cloud	•			
	1. 24x	7 plus Advanced Services Tic	ket Handling 2. Available	when running FortiOS 6.4

# FERTINET

www.fortinet.com

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FST-PROD-DS-GT80E



**Dynamický nákupný systém Výzva č. 1** "Nákup 2ks firewallov"

# Príloha č. 2 - Návrh na plnenie kritéria na vyhodnotenie ponúk a identifikačné údaje uchádzača

Obchodné meno uchádzača: Sídlo uchádzača: IČO: Meno a priezvisko štatutárneho zástupcu IČ DPH: Názov banky: Číslo účtu (IBAN): Telefónne číslo: E-mailová adresa: LightStorm Services s.r.o. Mliekárenská 8 821 09 Bratislava 48008575 Tomáš Molota, Ladislav Schill SK2024183216 Tatra banka, a.s.

0 peter.mazec@lightstorm-services.com

Predmet zákazky: "Nákup 2ks firewallov"

Kritérium na vyhodnotenie ponúk: najnižšia cena za celý predmet zákazky v EUR s DPH.

Celková cena za predmet zákazky v EUR bez DPH	Výška DPH	Celková cena za predmet zákazky v EUR s DPH
Nákup 2ks firewallov – sieťových zariadení so zameraním na sieťovú bezpečnosť v súlade s opisom predmetu tejto výzvy		3720,00

Cena uvedená uchádzačom obsahuje všetky náklady, ktoré uchádzačovi vzniknú v súvislosti s plnením predmetnej zákazky.

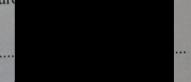
# Pomocné kritérium na hodnotenie ponúk v prípade rovnosti ponúk:

Lehota dodania tovaru (v dňoch)	ZIdni

# Som – Nie som platitel'om DPH (nehodiace sa preškrtnite)

Ak uchádzač nie je platiteľom DPH, na túto skutočnosť upozorní verejného obstarávateľa. Ak uchádzač nie je platcom DPH, ním uvedená cena bude považovaná za konečnú aj v prípade, ak by sa počas plnenia predmetu zákazky stal platiteľom DPH. V prípade, ak uchádzač je platiteľom DPH, avšak jeho sídlo je v inom členskom štáte EÚ alebo sídli mimo EÚ, uvedie v ponuke cenu, ktorá bude rozdelená na ním navrhovanú cenu bez DPH, výšku DPH a aj cenu s DPH podľa slovenských právnych predpisov (20%), aj keď samotnú DPH nebude faktur

V Bratislave, dňa 15.10.2020



Konatel' LightStorm Services s.r.o.