FIIRTINET.

FortiGate® 90E

The FortiGate 90E offers an excellent network security solution in a compact desktop form factor for enterprise branch offices and mid-sized businesses. Protect against cyber threats with industry-leading secure SD-WAN in a simple, affordable and easy to deploy solution.

Security
- Protects against known exploits, malware and malicious websites using continuous threat intelligence provided by FortiGuard Labs security services
- Detects unknown attacks using dynamic analysis and provides automated mitigation to stop targeted attacks

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, ICSA, Virus Bulletin and AV Comparatives

Networking
- Delivers an extensive routing, switching, wireless controller and high performance IPsec VPN capabilities to consolidate networking and security functionality
- Enables flexible deployment such as UTM and Secure SD-WAN

Management
- Single Pane of Glass with Network Operations Center (NOC) view provides 360° visibility to identify issues quickly and intuitively
- 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 collaboratively integrate and provide end-to-end security across the entire attack surface

Firewall	IPS	NGFW	Threat Protection	Interfaces
4 Gbps	470 Mbps	375 Mbps	270 Mbps	Multiple GE RJ45

Refer to specification table for details.

DATA SHEET

DEPLOYMENT

Unified Threat Management (UTM)

- Consolidated security and networking for small businesses
- Consistently top-rated protection to stop threats
- Integrated wired and wireless networking to simplify IT
- Purpose-built hardware for industry best performance
- Cloud management for easy administration

Secure SD-WAN

- Secure direct Internet access for Cloud Applications for improved latency and reduce WAN cost spending
- Effective, cost-efficient and high performance threat prevention capabilities
- WAN Path Controller and Link Health Monitoring for better application performance
- Security Processor powered industry's best IPsec VPN and SSL Inspection performance
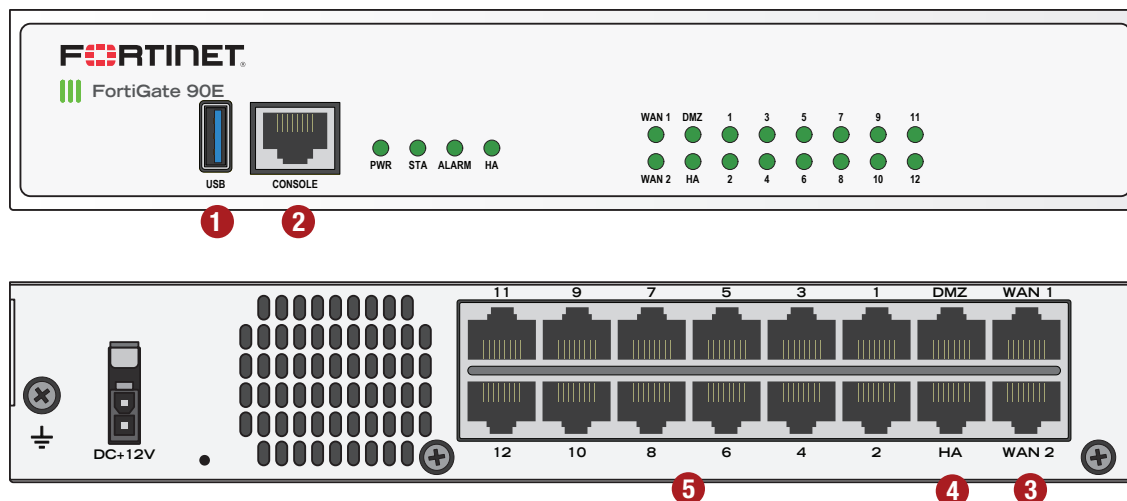- Centralized Management and Zero Touch deployment
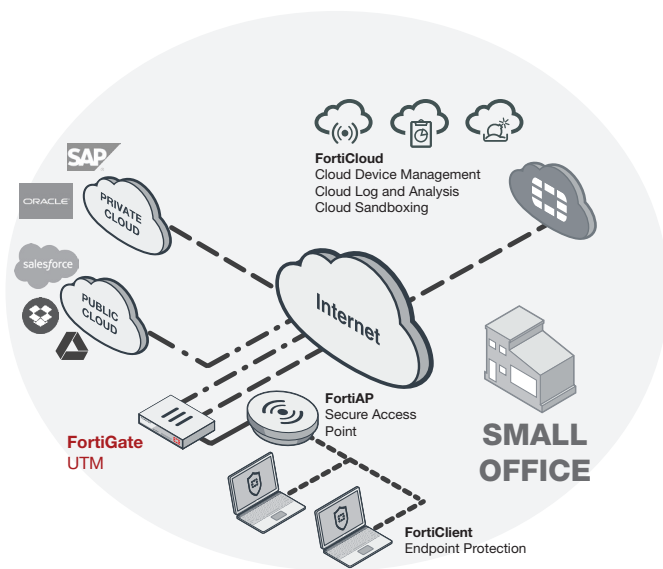
FortiGate 90E deployment in small office
(UTM)
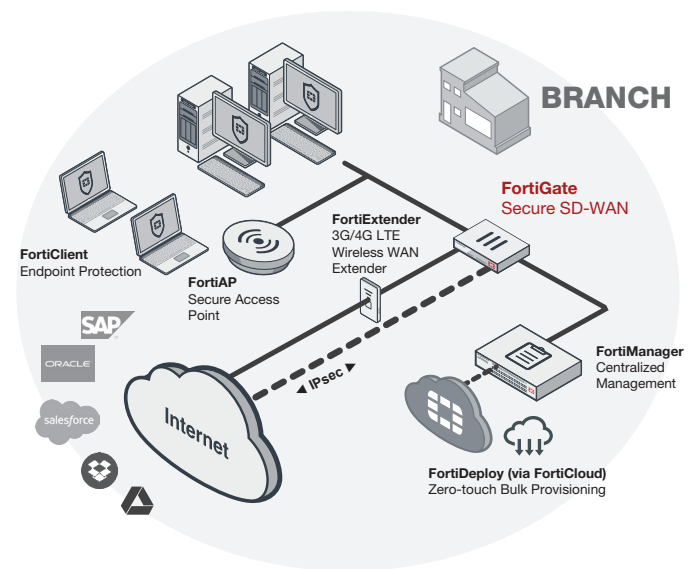
FortiGate 90E deployment in branch office
(Secure SD-WAN)

HARDWARE

FortiGate 90E

Interfaces

1. USB Management Port
2. Console Port
3. 2x GE RJ45 WAN Ports

4. 2x GE RJ45 DMZ/HA Ports
5. 12x GE RJ45 Ports

Install in Minutes with FortiExplorer

The FortiExplorer™ wizard enables easy setup and configuration coupled with easy-to-follow instructions. FortiExplorer runs on popular mobile devices like Android and iOS. Using FortiExplorer is as simple as starting the application and connecting to the appropriate USB port on the FortiGate. By using FortiExplorer, you can be up and running and protected in minutes.

3G/4G WAN Connectivity

The FortiGate 90E includes USB ports that allow 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 simply place the FortiGate 90E on a desktop. It is small, lightweight yet highly reliable with superior MTBF (Mean Time Between Failure), minimizing the chance of a network disruption.

Built-in Fan

The FortiGate 90E comes with a built-in fan for additional reliability and is suitable for enclosed environment.

FORTINET SECURITY FABRIC

Security Fabric

The Security Fabric allows security to dynamically expand and adapt as more and more workloads and data are added. Security seamlessly follows and protects data, users, and applications as they move between IoT, devices, and cloud environments throughout the network.

FortiGates are the foundation of Security Fabric, expanding security via visibility and control by tightly integrating with other Fortinet security products and Fabric-Ready Partner solutions.
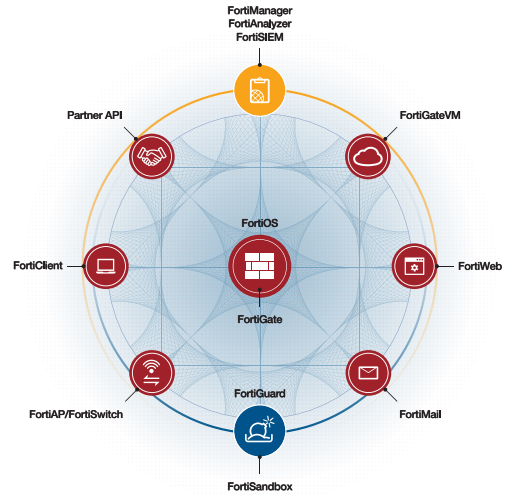
FortiOS

Control all the security and networking capabilities across the entire FortiGate platform with one intuitive operating system. Reduce operating expenses and save time with a truly consolidated next-generation security platform.
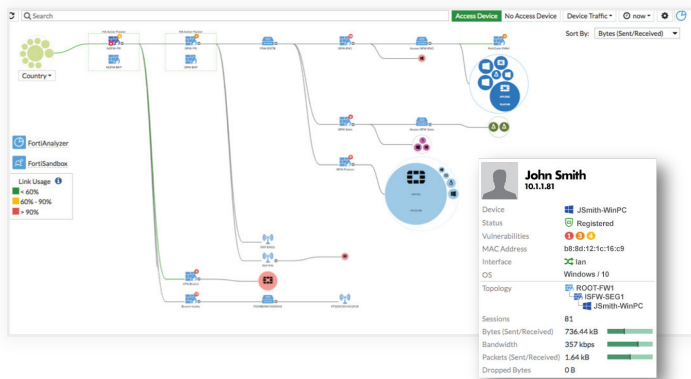
- A truly consolidated platform with one OS for all security and networking services for all FortiGate platforms.

- Industry-leading protection: NSS Labs Recommended, VB100, AV Comparatives, and ICSA validated security and performance.

- Control thousands of applications, block the latest exploits, and filter web traffic based on millions of real-time URL ratings.

- Prevent, detect, and mitigate advanced attacks automatically in minutes with integrated advanced threat protection.

- Fulfill your networking needs with extensive routing, switching, and SD-WAN capabilities.

- Utilize SPU hardware acceleration to boost security capability performance.

> For more information, please refer to the FortiOS data sheet available at www.fortinet.com

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™ 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 90E
Hardware Specifications	
GE RJ45 Ports	16
USB Ports	1
Console (RJ45)	1
Internal Storage	–
System Performance	
Firewall Throughput	4 Gbps
Firewall Latency (64 byte UDP Packets)	182 µs
Firewall Throughput (Packets Per Second)	375 Kpps
Concurrent Sessions (TCP)	1.2 Million
New Sessions/Second (TCP)	27,500
Firewall Policies	5,000
IPSec VPN Throughput (512 byte) [1]	245 Mbps
Gateway-to-Gateway IPSec VPN Tunnels	200
Client-to-Gateway IPSec VPN Tunnels	2,500
SSL-VPN Throughput	95 Mbps
Concurrent SSL-VPN Users (Recommended Maximum, Tunnel Mode)	200
SSL Inspection Throughput (IPS, HTTP) [3]	300 Mbps
Application Control Throughput [2]	510 Mbps
CAPWAP Throughput (HTTP 64K)	950 Mbps
Virtual Domains (Default / Maximum)	10 / 10
Maximum Number of Switches Supported	8
Maximum Number of FortiAPs (Total / Tunnel Mode)	32 / 16
Maximum Number of FortiTokens	100
Maximum Number of Registered FortiClients	200
High Availability Configurations	Active / Active, Active / Passive, Clustering
System Performance — Optimal Traffic Mix	
IPS Throughput [2]	1 Gbps
System Performance — Enterprise Traffic Mix	
IPS Throughput [2]	470 Mbps
NGFW Throughput [2, 4]	375 Mbps
Threat Protection Throughput [2, 5]	270 Mbps

	FORTIGATE 90E
Dimensions and Power	
Height x Width x Length (inches)	1.7 x 8.5 x 7.0
Height x Width x Length (mm)	43.9 x 216 x 178.5
Form Factor	Desktop
Weight	2.884 lbs (1.308 kg)
Power Required	100–240V AC, 60–50 Hz (External DC Power Adapter)
Power Consumption (Average / Maximum)	22.8 W / 27.36 W
Current (Maximum)	100V AC / 1.5A
Heat Dissipation	77.7936 BTU/h
Operating Environment and Certifications	
Operating Temperature	32–104°F (0–40°C)
Storage Temperature	-31–158°F (-35–70°C)
Humidity	10–90% non-condensing
Noise Level	40 dB
Operating Altitude	Up to 7,400 ft (2,250 m)
Compliance	FCC Part 15 Class B, C-Tick, VCCI, CE, UL/cUL, CB
Certifications	ICSA Labs: Firewall, IPSec, IPS, Antivirus, SSL VPN; USGv6/IPv6

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 test uses TLS v1.2 with AES128-SHA256.
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.

ORDER INFORMATION

Product	SKU	Description
FortiGate 90E	FG-90E	16x GE RJ45 ports (including 2x WAN ports, 1x DMZ port, 1x HA port, 12x switch ports). Maximum managed FortiAPs (Total / Tunnel) 32 / 16.

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	Threat Protection	UTM	Enterprise Protection
FortiSandbox Cloud (plus FortiGuard CDR* and VOP* service)			•
FortiGuard Antispam		•	•
FortiGuard Web Filtering		•	•
FortiGuard Antivirus + Botnet + Mobile AV Service	•	•	•
FortiGuard IPS Service	•	•	•
FortiCare + FortiGuard App Control Service	•	•	•

* Available when running FortiOS 6.0 and above

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