



FortiGate/FortiWiFi® 90D Series

Enterprise-Grade Protection for Distributed Network Locations



FortiGate/FortiWiFi® 90D Series

FortiGate 90D, 90D-POE, FortiWiFi 90D, 90D-POE

The FortiGate/FortiWiFi 90D Series are compact, all-in-one security appliances that deliver Fortinet’s Connected UTM. Ideal for remote, customer premise equipment (CPE) and retail networks, these appliances offer the network security, connectivity, and performance you need at a single low per-device price.

Advanced Protection and Wireless Connectivity

You get advanced threat protection, including firewall, application control, advanced threat protection, IPS, VPN, and web filtering, all from one device that’s easy to deploy and manage. With its comprehensive management console, remote provisioning and wide range of connectivity options you have an easy-to-deploy, easy-to-manage solution that’s great for a centrally managed infrastructure.

Reduce the need for additional wireless access points by integrating a high-bandwidth “fat-client” into your FortiGate with the FortiWiFi 90D. It’s also a great option to secure mobile devices in BYOD environments with automatic device identification and customizable access and security policies.

You’ll appreciate features like WAN Optimization, Data Archiving and VDOMs for your distributed networks. VDOMs on the FortiGate/FortiWiFi 90D, let you segment networks to enable guest and employee access, or protect things like cardholder data to meet compliance standards like PCI and HIPAA.

Highlights

	Firewall Performance	IPS Performance	Interfaces
90D	3.5 Gbps	275 Mbps	Multiple GE RJ45
90D-POE	3.5 Gbps	275 Mbps	Multiple GE RJ45 and GE RJ45 PoE

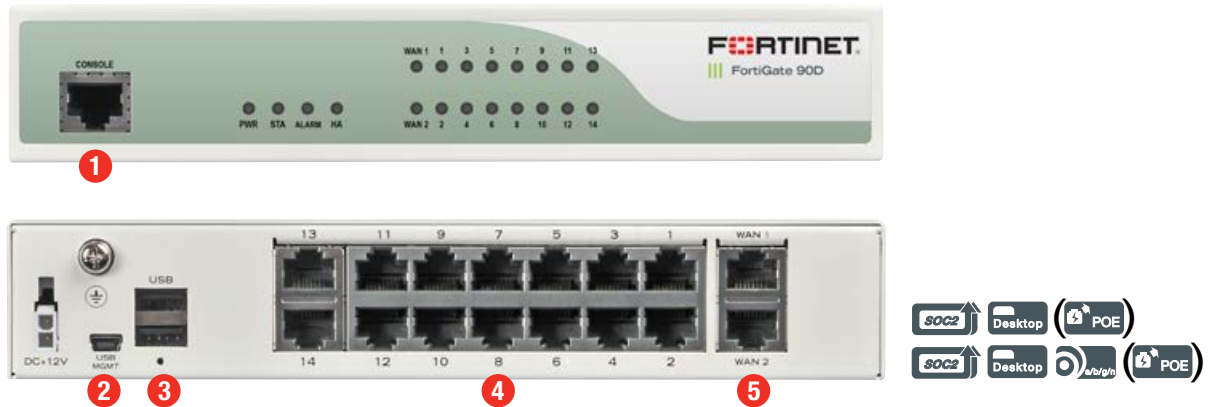
Features & Benefits

- 3.5 Gbps throughput performance delivers fast network response
- Integrated switch and options for PoE simplify your network infrastructure
- Up to 2x WAN, 14x LAN (4x Power over Ethernet ports on PoE models)
- Runs on FortiOS 5 — the most powerful security operating system in the world delivers more security to fight advanced threats, more control to secure mobile devices, and more intelligence to build secure policies



HARDWARE

FortiGate/FortiWiFi 90D(-POE)



Interfaces

- | | |
|------------------------|---|
| 1. Console Port | 4. 14x GE RJ45 Switch Ports /
10x GE RJ45 Switch and 4x RJ45 PoE Ports on PoE Models |
| 2. USB Management Port | 5. 2x GE RJ45 WAN Ports |
| 3. 2x USB Ports | |



Powered by FortiASIC SoC2

- Combines a RISC-based CPU with Fortinet’s proprietary FortiASIC™ 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, secure remote access

Install in Minutes with FortiExplorer

The FortiExplorer™ wizard enables you to easily and quickly set up and configure FortiGate and FortiWiFi platforms with easy-to-follow instructions. The application runs on Windows, Mac OS X desktops and laptops as well as popular mobile devices. Simply connect to the appropriate USB port on the appliance, and be fully protected in minutes.

3G/4G WAN Connectivity

The FortiGate/FortiWiFi 90D 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.

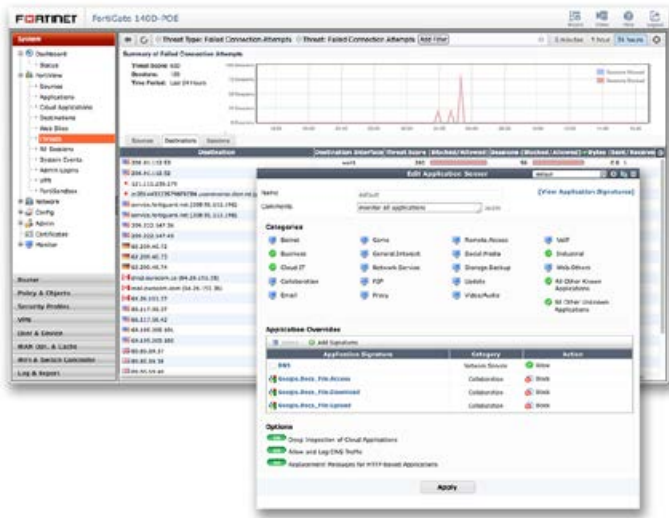
Compact and Reliable Form Factor

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.

Superior Wireless Coverage

A built-in dual-band, dual-stream access point with internal antennas is integrated on the FortiWiFi 90D and provides speedy 802.11n coverage on both 2.4 GHz and 5 GHz bands. The dual-band chipset addresses the PCI-DSS compliance requirement for rogue AP wireless scanning, providing maximum protection for regulated environments.

SOFTWARE



FortiOS Management UI — FortiView and Application Control Panel

FortiOS

FortiOS helps you protect your organization against advanced threats, configure and deploy your network security faster and see deep into what's happening inside your network. It enables organization to set up policies specific to types of devices, users and applications with industry-leading security capabilities. FortiOS leverages custom FortiASICs and the Optimum Path Processing architecture of FortiGate to deliver 5 times faster throughput performance. In essence, FortiOS delivers:

- **Comprehensive Security** — Control thousands of applications and stop more threats with NSS Labs Recommended IPS, sandboxing, VB100 certified antimalware and more.
- **Superior Control and Visibility** — Stay in control with rich visibility over network traffic, granular policy control, and intuitive, scalable security and network management.
- **Robust Networking Capabilities** — Optimize your network with extensive switching and routing, high availability, WAN optimization, embedded WiFi controller, and a range of virtual options.



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, other network and security vendors, as well as law enforcement agencies:

- **Real-time Updates** — 24x7x365 Global Operations research security intelligence, distributed via Fortinet Distributed Network to all Fortinet platforms.
- **Security Research** — FortiGuard Labs have discovered over 170 unique zero-day vulnerabilities to date, totaling millions of automated signature updates monthly.
- **Validated Security Intelligence** — Based on FortiGuard intelligence, Fortinet's network security platform is tested and validated by the world's leading third-party testing labs and customers globally.



For more information, please refer to <http://forti.net/guard>

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:

- **Enhanced Support** — For customers who need support during local business hours only.
- **Comprehensive Support** — For customers who need around-the-clock mission critical support, including advanced exchange hardware replacement.
- **Premium Services** — For global or regional customers who need an assigned Technical Account Manager, enhanced service level agreements, extended software support, priority escalation, on-site visits and more.
- **Professional Services** — For customers with more complex security implementations that require architecture and design services, implementation and deployment services, operational services and more.



For more information, please refer to <http://forti.net/care>

SPECIFICATIONS

	FORTIGATE 90D	FORTIWIFI 90D	FORTIGATE 90D-POE	FORTIWIFI 90D-POE
Hardware Specifications				
GE RJ45 WAN Ports	2	2	2	2
GE RJ45 Switch Ports	14	14	10	10
GE RJ45 PoE Ports	–	–	4	4
FE RJ45 PoE Ports	–	–	–	–
GE SFP DMZ Slots	–	–	–	–
Wireless Interface	–	802.11 a/b/g/n	–	802.11 a/b/g/n
USB Ports (Client / Server)	1 / 2	1 / 2	1 / 2	1 / 2
Console (RJ45)	–	–	1	–
Internal Storage	–	–	32 GB	–
System Performance				
Firewall Throughput (1518 / 512 / 64 byte UDP packets)			3.5 / 3.5 / 3.5 Gbps	
Firewall Latency (64 byte UDP packets)			4 µs	
Firewall Throughput (Packets Per Second)			5.3 Mpps	
Concurrent Sessions (TCP)			2 Million	
New Sessions/Second (TCP)			4,000	
Firewall Policies			5,000	
IPsec VPN Throughput (512 byte packets)			1 Gbps	
Gateway-to-Gateway IPsec VPN Tunnels			200	
Client-to-Gateway IPsec VPN Tunnels			1,000	
SSL-VPN Throughput			35 Mbps	
Concurrent SSL-VPN Users (Recommended Maximum)			200	
IPS Throughput			275 Mbps	
Antivirus Throughput			35 Mbps	
CAPWAP Clear-text Throughput (HTTP)			210 Mbps	
Virtual Domains (Default / Maximum)			10 / 10	
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			
Dimensions				
Height x Width x Length (inches)	1.72 x 8.5 x 8.78	1.72 x 9.2 x 8.78	1.72 x 8.5 x 8.78	1.72 x 9.2 x 8.78
Height x Width x Length (mm)	44 x 216 x 223	44 x 234 x 223	44 x 216 x 223	44 x 234 x 223
Weight	3.5 lbs (1.6 kg)	3.5 lbs (1.6 kg)	3.5 lbs (1.6 kg)	3.5 lbs (1.6 kg)
Form Factor	Desktop	Desktop	Desktop	Desktop
Environment				
Power Required	100–240V AC, 50–60 Hz			
Maximum Current	110 V / 1.5 A, 220 V / 0.75 A	110 V / 1.5 A, 220 V / 0.75 A	110 V / 2 A, 220 V / 1 A	110 V / 2 A, 220 V / 1 A
Total Available PoE Power Budget*	–	–	61.6 W	61.6 W
Power Consumption (Average / Maximum)	18 / 22 W	21 / 25 W	59 / 89 W	60 / 90 W
Heat Dissipation	74 BTU/h	85 BTU/h	303 BTU/h	307 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 7,400 ft (2,250 m)			
Compliance				
Safety	FCC Part 15 Class B/A, C-Tick, VCCI, CE, UL/cUL, CB			
Certifications				
ICSA Labs: Firewall, IPsec, IPS, Antivirus, SSL-VPN				

Note: All performance values are "up to" and vary depending on system configuration. Antivirus performance is measured using 44 Kbyte HTTP files. IPS performance is measured using 1 Mbyte HTTP files. Antivirus Throughput is measured in proxy mode.
* Maximum loading on each PoE port is 15.4 W (802.3af).

ORDER INFORMATION

Product	SKU	Description
FortiGate 90D	FG-90D	16x GE RJ45 ports (2x WAN ports, 14x Switch ports), 32 GB onboard storage. Max managed FortiAPs (Total / Tunnel) 32 / 16.
FortiWiFi 90D	FWF-90D	16x GE RJ45 ports (2x WAN ports, 14x Switch ports), Wireless (802.11a/b/g/n), 32 GB onboard storage. Max managed FortiAPs (Total / Tunnel) 32 / 16.
FortiGate 90D-POE	FG-90D-POE	16x GE RJ45 ports (including 2x WAN ports, 10x Switch ports, 4x PoE ports), 32 GB SSD onboard storage. Max managed FortiAPs (Total / Tunnel) 32 / 16.
FortiWiFi 90D-POE	FWF-90D-POE	16x GE RJ45 ports (including 2x WAN ports, 10x Switch ports, 4x PoE ports), Wireless (802.11a/b/g/n), 32 GB SSD onboard storage. Max managed FortiAPs (Total / Tunnel) 32 / 16.



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