FortiGate/FortiWiFi® 90D Series
Distributed Enterprise Firewall

FortiGate/FortiWiFi® 90D Series

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

The Fortinet Enterprise Firewall Solution

The Fortinet Enterprise Firewall Solution delivers end-to-end network security with one platform, one network security operating system and unified policy management with a single pane of glass — for the industry's best protection against the most advanced security threats and targeted attacks.

One Enterprise Firewall Solution across the Extended Enterprise

The FortiGate family of network appliances represents the industry's broadest range of enterprise firewall platforms. FortiGate is based on FortiASIC, a purpose-built integrated architecture that provides extremely high throughput and exceptionally low latency, while delivering industry-leading security effectiveness and consolidation which is routinely validated by independent real-world tests. Targeted for distributed enterprises, the FortiGate 90D series contains consolidated security and networking functionality, various connectivity options along with Industry's best performance in a compact form factor.

Validated Security | **One Network OS** | **Performance**

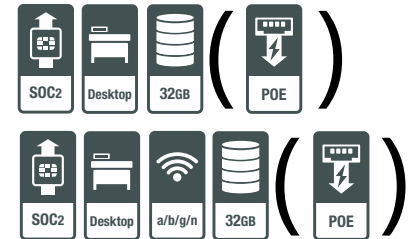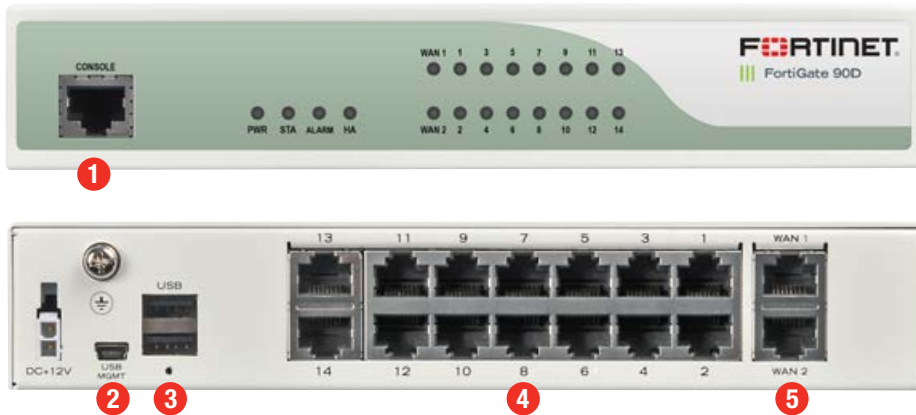**Single Pane of Glass** | **Universal Platform Support**

FORTINET SECURITY FABRIC

FortiGate appliances, interconnected with the Fortinet Security Fabric, form the backbone of the Fortinet Enterprise Solution

forti.net/sf

ICSA labs CERTIFIED ANTI-VIRUS | ICSA labs CERTIFIED FIREWALL-CORPORATE | ICSA labs CERTIFIED IPSEC-BASIC

ICSA labs CERTIFIED SSL VPN | ICSA labs CERTIFIED NETWORK IPS

Highlights

	Firewall	IPS	NGFW	Threat Protection	Interfaces
		Enterprise Traffic Mix			
FG/FWF-90D	3.5 Gbps	41 Mbps	25 Mbps	22.5 Mbps	Multiple GE RJ45
FG/FWF-90D-POE	3.5 Gbps	41 Mbps	25 Mbps	22.5 Mbps	Multiple GE RJ45 and GE RJ45 PoE

Security Fabric Extensions

FortiAP forti.net/fap | **FortiClient** forti.net/fct | **FortiToken** 384629 forti.net/ftk | **FortiSwitch** forti.net/fsw | **FortiSandbox** forti.net/fsa

HARDWARE

FortiGate/FortiWiFi 90D(-POE)

Interfaces

1. Console Port
2. USB Management Port
3. 2x USB Ports

4. 14x GE RJ45 Switch Ports /
   10x GE RJ45 Switch and 4x RJ45 PoE Ports on PoE Models
5. 2x GE RJ45 WAN 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

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.
- Detect, contain and block advanced attacks automatically in minutes with integrated advanced threat protection framework.
- Solve your networking needs with extensive routing, switching, WiFi, LAN and WAN capabilities.
- Activate all the ASIC-boosted capabilities you need on the fastest firewall platform available.

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.

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.
- **Advanced 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.

Enterprise 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 the FortiGuard Enterprise Bundle. This bundle contains the full set of FortiGuard security services plus FortiCare service and support offering the most flexibility and broadest range of protection all in one package.

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 (HTTP / Enterprise Mix) [1]		275 / 41 Mbps		
SSL Inspection Throughput [2]		35 Mbps		
Application Control Throughput [3]		60 Mbps		
NGFW Throughput [4]		25 Mbps		
Threat Protection Throughput [5]		22.5 Mbps		
CAPWAP Throughput [6]		260 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; USGv6/IPv6		

Note: All performance values are "up to" and vary depending on system configuration. IPsec VPN performance is based on 512 byte UDP packets using AES-256+SHA1. 1. IPS performance is measured using 1 Mbyte HTTP and Enterprise Traffic Mix. 2. SSL Inspection is measured with IPS enabled and HTTP traffic, using TLS v1.2 with AES256-SHA. 3. Application Control performance is measured with 64 Kbytes HTTP traffic. 4. NGFW performance is measured with IPS and Application Control enabled, based on Enterprise Traffic Mix. 5. Threat Protection performance is measured with IPS and Application Control and Malware protection enabled, based on Enterprise Traffic Mix. 6. CAPWAP performance is based on 1444 byte UDP packets.

* 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), 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.
Optional Accessory		
Rack mount tray	SP-RACKTRAY-01	Rack mount tray for FG-30D, FG-40C, FG-50/51E, FG-60C, FG-60D/-POE, FG-70D, FG-80D, FG-90D/-POE, FAD-100E, FRC-100D, FWB-100D, FML-60D, FVE-100E.

FÖRTINET®

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