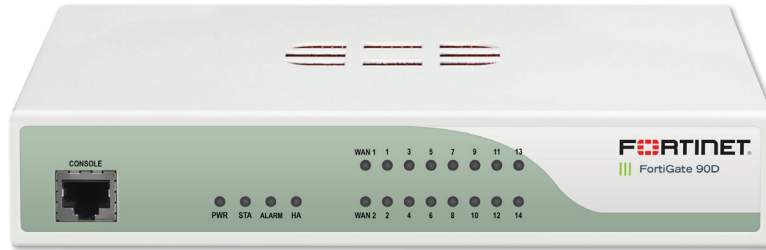


# FortiGate/FortiWiFi® 90D Series

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



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.**



## Security Fabric Integration

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



## Deployment Modes

Distributed Enterprise Firewall



## Hardware Acceleration

SPU SoC2



## Third-Party Certifications



**3.5 Gbps**  
*Firewall*

**2 Million**  
*Concurrent Sessions*



**41 Mbps**  
*IPS*



**25 Mbps**  
*NGFW*



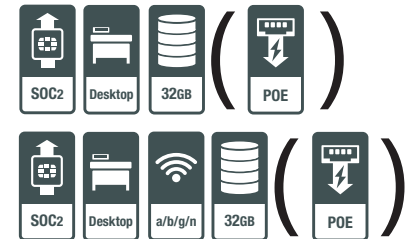
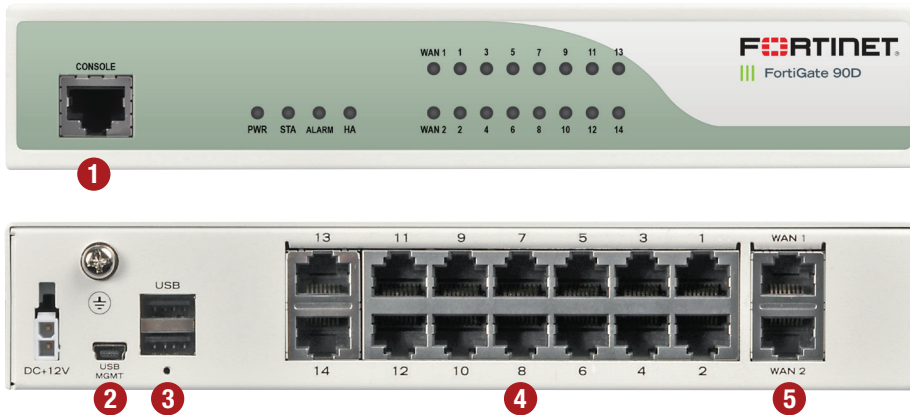
**22.5 Mbps**  
*Threat Protection*



Multiple GE RJ45 | PoE Variants

## 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 SPU SoC2

- 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, 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.

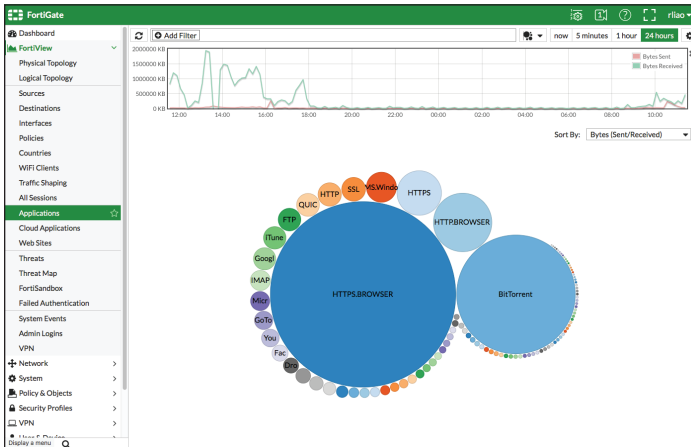
### Superior Wireless Coverage

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 SPU-booster capabilities you need on the fastest firewall platform available.



For more information, please refer to the FortiOS data sheet available at [www.fortinet.com](http://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                 | FORTIWIIFI 90D                                                  | FORTIGATE 90D-POE                                   | FORTIWIIFI 90D-POE       |
|--------------------------------------------------------|-------------------------------|-----------------------------------------------------------------|-----------------------------------------------------|--------------------------|
| <b>Hardware Specifications</b>                         |                               |                                                                 |                                                     |                          |
| 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                                               | –                        |
| <b>System Performance</b>                              |                               |                                                                 |                                                     |                          |
| 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) <sup>1</sup>    |                               |                                                                 | 275 / 41 Mbps                                       |                          |
| SSL Inspection Throughput <sup>2</sup>                 |                               |                                                                 | 35 Mbps                                             |                          |
| Application Control Throughput <sup>3</sup>            |                               |                                                                 | 60 Mbps                                             |                          |
| NGFW Throughput <sup>4</sup>                           |                               |                                                                 | 25 Mbps                                             |                          |
| Threat Protection Throughput <sup>5</sup>              |                               |                                                                 | 22.5 Mbps                                           |                          |
| CAPWAP Throughput <sup>6</sup>                         |                               |                                                                 | 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       |                          |
| <b>Dimensions</b>                                      |                               |                                                                 |                                                     |                          |
| 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                  |
| <b>Environment</b>                                     |                               |                                                                 |                                                     |                          |
| 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)                            |                          |
| <b>Compliance</b>                                      |                               |                                                                 |                                                     |                          |
| Safety                                                 |                               |                                                                 | FCC Part 15 Class B/A, C-Tick, VCCI, CE, UL/cUL, CB |                          |
| <b>Certifications</b>                                  |                               |                                                                 |                                                     |                          |
|                                                        |                               | 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 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. |
| 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.                               |



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