

# FortiGate 900G Series



#### Highlights

#### Gartner® Magic

Quadrant<sup>™</sup> Leaders for both Network Firewalls and WAN Edge Infrastructure

**Secure Networking** with FortiOS for converged networking and security

State-of-the-art unparalleled performance with Fortinet's patented SPU and vSPU processors

#### Enterprise security

with consolidated Al/ ML-powered FortiGuard services

Deep visibility into applications, users, and devices beyond traditional firewall techniques

### Artificial Intelligence, Machine Learning Security with Deep Visibility

The FortiGate 900G series next-generation firewall (NGFW) combines artificial intelligence (AI)-powered security and machine learning (ML) to deliver threat protection at any scale. Get deeper visibility into your network and see applications, users, and devices before they become threats.

Powered by Fortinet ASIC technology, the 900G series delivers industry-leading threat detection capabilities, allowing for faster identification and mitigation of cyberthreats. Powered by a rich set of AI/ML security capabilities that extend into an integrated Security Fabric platform, the FortiGate 900G series delivers secure networking that is broad, deep, and automated. Secure your network end to end with advanced edge protection that includes web, content, and device security, while network segmentation and secure SD-WAN reduce complexity and risk in hybrid IT networks.

Universal zero-trust network access (ZTNA) automatically controls, verifies, and facilitates user access to applications, reducing lateral threats by providing access only to validated users. Ultra-fast threat protection and SSL inspection provides security at the edge you can see without impacting performance.

| IPS     | NGFW    | Threat Protection | Interfaces  |
|---------|---------|-------------------|---|
| 26 Gbps | 22 Gbps | 20 Gbps           | Multiple 25 GE SFP28, 10 GE SFP+, GE SFP<br>Slots and GE RJ45 |

### **Use Cases**

### Next Generation Firewall (NGFW)

- FortiGuard Labs' suite of AI-Powered Security Services, natively integrated with your NGFW, secures web, content, and devices and protects networks from ransomware, malware, zero days, and sophisticated AI-powered cyberattacks
- Real-time SSL inspection (including TLS 1.3) provides full visibility into users, devices, and applications across the attack surface
- Fortinet's patented SPU technology provides industry-leading high-performance protection



- FortiGate WAN Edge powered by one OS and unified security and management framework and systems transforms and secures WANs
- Delivers superior quality of experience and effective security posture for hybrid working models, SD-Branch, and cloud-first WAN use cases
- Achieve operational efficiencies at any scale through automation, deep analytics, and selfhealing



### Universal ZTNA

- Control access to applications no matter where the user is and no matter where the application is hosted for universal application of access policies
- Provide extensive authentications, checks, and enforce policy prior to granting application access every time
- Agent-based access with FortiClient or agentless access via proxy portal for guest or BYOD



### Segmentation

- Dynamic segmentation adapts to any network topology to deliver true end-to-end security from the branch to the data center and across multi-cloud environments
- Ultra-scalable, low latency, VXLAN segmentation bridges physical and virtual domains with Layer 4 firewall rules
- Prevents lateral movement across the network with advanced, coordinated protection from FortiGuard Security Services, detects and prevents known, zero-day, and unknown attacks



### **FortiGuard AI-Powered Security Services**

FortiGuard AI-Powered Security Services is part of Fortinet's layered defense and tightly integrated into our FortiGate NGFWs and other products. Infused with the latest threat intelligence from FortiGuard Labs, these services protect organizations against modern attack vectors and threats, including zero-day and sophisticated AI-powered attacks.

### Network and file security

Network and file security services protect against network and file-based threats. With over 18,000 signatures, our industry-leading intrusion prevention system (IPS) uses AI/ML models for deep packet/SSL inspection, detecting and blocking malicious content, and applying virtual patches for newly discovered vulnerabilities. Anti-malware protection defends against both known and unknown file-based threats, combining antivirus and sandboxing for multi-layered security. Application control improves security compliance and provides real-time visibility into applications and usage.

### Web/DNS security

Web/DNS security services protect against DNS-based attacks, malicious URLs (including those in emails), and botnet communications. DNS filtering blocks the full spectrum of DNS-based attacks while URL filtering uses a database of over 300 million URLs to identify and block malicious links. Meanwhile, IP reputation and anti-botnet services guard against botnet activity and DDoS attacks. FortiGuard Labs blocks over 500 million malicious/phishing/ spam URLs weekly, and blocks 32,000 botnet command-and-control attempts every minute, demonstrating the robust protection offered through Fortinet.

### SaaS and data security

SaaS and data security services cover key security needs for application use and data protection. This includes data loss prevention to ensure visibility, management, and protection (blocking exfiltration) of data in motion across networks, clouds, and users. Our inline cloud access security broker service protects data in motion, at rest, and in the cloud, enforcing compliance standards and managing account, user, and cloud app usage. Services also assess infrastructure, validate configurations, and highlight risks and vulnerabilities, including IoT device detection and vulnerability correlation.

### Zero-Day threat prevention

Zero-day threat prevention is achieved through AI-powered inline malware prevention to analyze file content to identify and block unknown malware in real time, delivering sub-second protection across all NGFWs. The service also integrates the MITRE ATT&CK matrix to speed up investigations. Integrated into FortiGate NGFWs, the service provides comprehensive defense by blocking unknown threats, streamlining incident response, and reducing security overhead.

### **OT** security

With over 1000 virtual patches, 1100+ OT applications, and 3300+ protocol rules, integrated OT security capabilities detect threats targeting OT infrastructure, perform vulnerability correlation, apply virtual patching, and utilize industry-specific protocol decoders for robust defense of OT environments and devices.



Available in



Appliance



Virtual



Hosted



Cloud



### **FortiOS Everywhere**

### FortiOS, Fortinet's Real-Time Network Security Operating System

FortiOS is the operating system that powers Fortinet Security Fabric platform, enabling enforcement of security policies and holistic visibility across the entire attack surface. FortiOS provides a unified framework for managing and securing networks, cloud-based, hybrid, or a convergence of IT, OT, and IoT. FortiOS enables seamless and efficient interoperation across Fortinet products with consistent and consolidated AI-powered protection across today's hybrid environments.

Unlike traditional point solutions, Fortinet adopts a holistic approach to cybersecurity, aiming to reduce complexities, eliminate security silos, and improve operational efficiencies. By consolidating security functions into a single platform, FortiOS simplifies management, reduces costs, and enhances overall security posture. Together, FortiGate and FortiOS create intelligent, adaptive protection to help organizations reduce complexity, eliminate security silos, and optimize user experience.

By integrating generative AI (GenAI), FortiOS further enhances the ability to analyze network traffic and threat intelligence, detects deviations or anomalies more effectively, and provides more precise remediation recommendations, ensuring minimum performance impact without compromising security.

Learn more about what's new in FortiOS. <u>https://www.fortinet.com/products/fortigate/fortios</u>



Intuitive easy to use view into the network and endpoint vulnerabilities

|                               | = 0  |  |               |                                      |                         |                     |
|-------------------------------|--|--|---------------|--------------------------------------|-------------------------|---------------------|
| Outboard                      | + Add widget                                   |  |               |                                      |                         |                     |
| \$2NI                         | System Information                             | Ex. House  | 123497.16.0   | <ul> <li>Security Fabric</li> </ul>  | a 0.5×                  | Assets-Witerah., 25 |
| Smarty                        | Martines and an Works                          |  |               |                                      |                         |                     |
| Network<br>Assets & Merrilles | Section and and and and and and and and and an |  | - A D         |                                      | LANEAge                 | -                   |
| AGRES & BORODOL<br>MIC        | Fermine stationers                             |  | et Update PS  | Tri D Curica                         |                         |                     |
|                               | Mode MIZ                                       |  | 00            |                                      |                         |                     |
| FostViewSeyTox                | System time 2024/09/11/12                      | 254 40   |               |                                      | abric Cannectars        | - y                 |
| Furthern Destinations         | Uptime 12537m 45                               |  |               |                                      | 🔏 Ferifaceben           |                     |
| Partition Applications        | WHIP #15.972143                                |  |               | E Maragement                         | 4 TorsClertEMS          |                     |
| Fort Mee Web Store            |  |  |               |                                      |                         | -                   |
| Fot View Policies             | Forth/eva dealizations by f                    |  |               | <ul> <li>Notic &amp; Dyna</li> </ul> |                         |                     |
| Forthfree Services            | Portitives Applications by t                   | lyies  | E 074eo* 2 =  | · Subc&Dyaa                          | wis Kouling             |                     |
| é nevez                       | Autoto   | Conserv  | Data a        |                                      | Type                    |                     |
| P Pulsy& Chinese              | D 2 HTTPL/P24918                               | Dimesters  | 2.4108        |                                      | - Come. 8               |                     |
| P. Sanch Paties               | Mercarb Inda                                   | Collaboration  | 423.00 MR     | - <b>7</b>                           | •141 Ø                  |                     |
| D VIN                         | 0 2.98   | D Notenzi Senice   | 20112340      |                                      |                         | <u>~</u>            |
| 7. Ver&Autoritation           | 2 HTTP///COVER                                 | Crawle Clared  | 134,15546     |                                      |                         |                     |
| V WHA Selek Controller        | 2 HTTP ARCOVER                                 | D/WebClevi<br>D/Deutlf   | 1313646       |                                      |                         |                     |
| 8 faten 🚺                     | P Karnes / headpase                            | P.A.M  |               | 6.18                                 |                         |                     |
| 🛛 Searta Febric 💦 🚺           | For Direction and The Three                    |  |               |                                      | h Nites by Thread Score |                     |
| LT. Logik Report              | Por Wiew Sources by Three                      | 6.5core  | E 074en* 2 =  | <ul> <li>ForthNew Wei</li> </ul>     | b Siles by Threat Score | E 076               |
|                               | Seurce   | Device   | Thread Score- | Due                                  | uin Can                 | eon Tr              |
|                               | □ A 200122                                     |  | 201.701       | C Dotate                             | -                       | 208                 |
|                               | 0 8 900113                                     |  | 87.585        | O Disting                            | 1                       |                     |
|                               | A 200323                                       |  | 25.623        | - Betreet                            | Lorn                    |                     |
|                               | D 3 100123                                     |  | 22.641        | 0172.56.5                            | 09.4                    |                     |
|                               |  | The second s | 0.000         | - Ormers                             |                         |                     |
| PERTINET                      |  |  |               | 5.18                                 |                         |                     |

Comprehensive view of network performance, security, and system status



### Fortinet ASICs: Unrivaled Security, Unprecedented Performance

#### Powered by the only purpose-built SPU

Traditional firewalls cannot protect against today's content and connection-based threats because they rely on off-the-shelf general-purpose central processing units (CPUs), leaving a dangerous security gap. Fortinet's custom SPUs deliver the power you need to radically increase speed, scale, and efficiency while greatly improving user experience and reducing footprint and power requirements. Fortinet's SPUs deliver up to 520 Gbps of protected throughput to detect emerging threats and block malicious content while ensuring your network security solution does not become a performance bottleneck.

Fortinet ASICs are designed to be energy-efficient, leading to lower power consumption and improved TCO. They deliver industry-leading throughput, handle more traffic and perform security inspections faster, reduce latency for quicker packet processing and minimize network delays.

Fortinet SPUs are designed with integrated security functions like zero trust, SSL, IPS, and VXLAN to name but a few, dramatically improving the performance of these functions that competitors traditionally implement in software.

#### Network processor NP7

Network processors operate in line to deliver unmatched performance and scalability for critical network functions. Fortinet's breakthrough SPU NP7 works in line with FortiOS functions to deliver:

- Hyperscale firewall, accelerated session setup, and ultra-low latency
- Industry-leading performance for VPN, VXLAN termination, hardware logging, and elephant flows

#### **Content processor CP9**

Content processors act as co-processors to offload resource-intensive processing of security functions. The ninth generation of the Fortinet Content Processor, the CP9, accelerates resource-intensive SSL (including TLS 1.3) decryption and security functions while delivering:

- Pattern matching acceleration and fast inspection of real-time traffic for application identification
- IPS pre-scan/pre-match, signature correlation offload, and accelerated antivirus processing

### FortiManager

### Centralized management at scale for distributed enterprises

FortiManager, powered by FortiAl, is a centralized management solution for the Fortinet Security Fabric. It streamlines mass provisioning and policy management for FortiGate, FortiGate VM, cloud security, SD-WAN, SD-Branch, FortiSASE, and ZTNA in hybrid environments. Additionally, FortiManager provides real-time monitoring of the entire managed infrastructure and automates network operation workflows. Leveraging GenAl in FortiAl, it further enhances Day 0–1 configurations and provisioning, and Day N troubleshooting and maintenance, unlocking the full potential of the Fortinet Security Fabric and significantly boosting operational efficiency.



GenAl in FortiManager helps manage networks effortlessly—generates configuration and policy scripts, troubleshoots issues, and executes recommended actions.

### **FortiConverter Service**

### Migration to FortiGate NGFW made easy

 $\equiv \mathbf{1}$ 

The FortiConverter Service provides hassle-free migration to help organizations transition quickly and easily from a wide range of legacy firewalls to FortiGate NGFWs. The service eliminates errors and redundancy by employing best practices with advanced methodologies and automated processes. Organizations can accelerate their network protection with the latest FortiOS technology.

### **FortiCare Services**

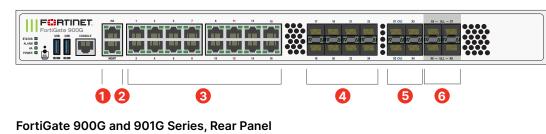
### Expertise at your service



Fortinet prioritizes customer success through FortiCare Services, optimizing the Fortinet Security Fabric solution. Our comprehensive life-cycle services include Design, Deploy, Operate, Optimize, and Evolve. The FortiCare Elite, one of the service offerings, provides heightened SLAs and swift issue resolution with a dedicated support team. This advanced support option includes an extended end-of-engineering support of 18 months, providing flexibility and access to the intuitive FortiCare Elite portal for a unified view of device and security health, streamlining operational efficiency and maximizing Fortinet deployment performance.

### Hardware

### FortiGate 900G/-DC and 901G/-DC Series, Front Panel



FortiGate 900G-DC and 901G-DC Series, Rear Panel

| ۲ |         |   |      |
|---|---------|---|------|
|   | 8       |   |      |
|   | 8       | ≝ |      |
| 6 | <u></u> |   | AWR1 |

### Hardware Features



### **Trusted Platform Module (TPM)**

The FortiGate 900G series features a dedicated module that hardens physical networking appliances by generating, storing, and authenticating cryptographic keys. Hardware-based security mechanisms protect against malicious software and phishing attacks.

### **Dual power supply**

Power supply redundancy is essential in the operation of mission-critical networks. The FortiGate 900G series offers dual hot swappable power supplies.

### Access layer security

FortiLink protocol enables you to converge security and network access by integrating the FortiSwitch into the FortiGate as a logical extension of the firewall. These FortiLink-enabled ports can be reconfigured as regular ports as needed.

### Interfaces

- 1. 1 × 2.5/1 GE RJ45 HA Port
- 2. 1 x GE RJ45 Management Port
- 3. 16 x GE RJ45 Ports
- 4. 8 x GE SFP Slots
- 5.  $4 \times 10$ GE/GE SFP+/SFP Slots
- 6. 4 × 25GE/10GE SFP28/SFP+ ULL (ultra-low latency) Slots

### **Specifications**

| Ider Source Colspan="2">Ider Source Colspan="2">I |  | FG-900G<br>FG-900G-DC  | FG-901G<br>FG-901G-DC |  |
|---|--|--|-----------------------|--|
| Hardware Accelerated 25 CE SFP28 / 10 CE<br>SFP+ Utra Low Latency Slots4Hardware Accelerated 10 GE SFP / CE SFP4Hardware Accelerated GE SFP Slots8Hardware Accelerated GE SFP Slots8Hardware Accelerated GE SFP Slots162.5 GE / GE HA Port1GE Management Port1USB Ports (Client / Server)2 / 2Console Port1Onboard StorageNo2× 480 GBTrusted Platform Module (TPM)○Signed Firmware Hardware Switch—Included Transceivers2 x SFP S xSystem Performance — Enterprise Traffic MixIPS Throughput 226 GbpsNGFW Throughput 2.422 GbpsSystem Performance and CapacityIPV4 Firewall Throughput 2.520 GbpsSystem Performance and CapacityIPV4 Firewall Throughput 164 / 163 / 153 GbpsFirewall Throughput 1700 (Abyte)3.78 / 2.5 µs*Firewall Throughput 1700 (Abyte)3.78 / 2.5 µs*Firewall Throughput 1700 (Abyte)3.78 / 2.5 µs*Firewall Throughput (S12 byte)55 GbpsGateway-to-Gateway IPsec VPN Tunnels2000Client-to-Gateway IPsec VPN Tunnels2000SSL Inspection CPS (IPS, avg. HTTPS)*18 000SSL Inspection CPS (IPS, a   | Interfaces and Modules                                 | PG-900G-DC   |                       |  |
| Hardware Accelerated 10 GE SFP / JGE SFP4Slots8Hardware Accelerated GE SFP Slots8Lardware Accelerated GE RJAS Slots162.5 GE / GE HA Port1GE Management Port1USB Ports (Client / Server)2 / 2Console Port1Onboard StorageNo2× 480 GBTrusted Platform Module (TPM)⊙Signed Firmware Hardware Switch−Included Transceivers2x SFP SXSystem Performance – Enterprise Traffic MixIPS Throughput <sup>2.4</sup> 22 G GbpsSystem Performance and CapacityIPv4 Firewall Throughput <sup>2.5</sup> 20 GbpsSystem Performance and CapacityIPv4 Firewall Throughput <sup>2.5</sup> 20 GbpsStrewall Throughput (FDP)164 / 163 / 153 GbpsFirewall Throughput (FDP)3.78 / 2.5 µs*Firewall Throughput (FDP)178 / 2.5 µs*Firewall Throughput (FDP)164 / 163 / 153 GbpsConcurrent Sessions (TCP)16 MillionNew Sessions/Second (TCP)720 000Firewall Policies10 000IPsec VPN Turnels2000Colurent Sessions (TCP)16.7 GbpsGateway-to-Gateway IPsec VPN Tunnels50 000SSL Inspection CPS (IPS, avg. HTTPS) <sup>3</sup> 18 000SSL Inspection CPS (IPS, avg. HTTPS) <sup>4</sup> 16 GbpsConcurrent Session1.6 Million <t< th=""><th>Hardware Accelerated 25 GE SFP28 / 10 GE</th><th>4</th><th></th></t<>   | Hardware Accelerated 25 GE SFP28 / 10 GE               | 4  |                       |  |
| Hardware Accelerated GE SFP Slots8Hardware Accelerated GE RJ45 Slots162.5 GE / GE HA Port1USB Ports (Client / Server)2 / 2Console Port1Onboard StorageNo2× 480 GBTrusted Platform Module (TPM)Signed Firnware Hardware Switch-Included Transceivers2x SFP SXSystem Performance - Enterprise Traffic MixIPS Throughput ²26 GbpsNGEW Throughput ².422 GbpsSystem Performance and CapacityIPV4 Firewall Throughput ².520 GbpsSystem Performance and CapacityIPV4 Firewall Throughput ?.422 G bpsStrew Performance and CapacityIPv4 Firewall Throughput ?.520 GbpsSystem Performance and CapacityIPv4 Firewall Throughput ?.520 GbpsSystem Performance and CapacityIPv4 Firewall Throughput ?.520 GbpsStorage (G byte, UDP)3.78 / 2.5 µs*Firewall Throughput (G12 byte, UDP)3.78 / 2.5 µs*Firewall Throughput (S12 byte, UDP)164 / 163 / 153 GbpsConcurrent Sessions (TCP)16 MillionNew Sessions/Second (TCP)720 000Firewall Policies10 000IPsec VPN Throughput (S12 byte)'55 GbpsGateway-to-Gateway IPsec VPN Tunnels2000SSL-NPPN Throughput16.7 GbpsSSL Inspection Concurrent Session1.6 Million(IPs, ay HTTPS)'18 000SSL Inspection Concurrent Session1.6 Million(IPs, ay GHTTPS)'18 000 <th>Hardware Accelerated 10 GE SFP+ / GE SFP</th> <th>4</th> <th></th>  | Hardware Accelerated 10 GE SFP+ / GE SFP               | 4  |                       |  |
| Hardware Accelerated GE R.J45 Slots         16           2.5 GE / GE HA Port         1           GE Management Port         1           USB Ports (Client / Server)         2 / 2           Console Port         1           Onboard Storage         No         2× 480 GB           Trusted Platform Module (TPM)         ○           Bluetooth Low Energy (BLE)         ○           Signed Firmware Hardware Switch         -           Included Transceivers         2x SFP SX           System Performance — Enterprise Traffic Mix         -           IPS Throughput <sup>2.4</sup> 22 Gbps           Threat Protection Throughput <sup>2.4</sup> 22 Gbps           System Performance and Capacity         -           IPv4 Firewall Throughput <sup>2.4</sup> 22 Gbps           System Performance and Capacity         -           IPv4 Firewall Throughput (Pexket per Second)         229.5 Mps           Concurrent Sessions (TCP)         16 / 163 / 153 Gbps           Concurrent Sessions (TCP)         16 Million           New Sessions/Second (TCP)         720 000           Firewall Prologhput         10 Gbps           Concurrent SSL-VPN Throughput         10 Gbps           Concurrent SSL-VPN Users         10 000           Reco   |  | 8  |                       |  |
| 2.5 GE / GE HA Port         1           GE Management Port         1           USB Ports (Client / Server)         2 / 2           Console Port         1           Onboard Storage         No         2× 480 GB           Trusted Platform Module (TPM)         ○           Biluetooth Low Energy (BLE)         ○           Signed Firmware Hardware Switch         -           Included Transceivers         2x SFP SX           System Performance — Enterprise Traffic Mix         PS           IPS Throughput <sup>2, 4</sup> 22 G Gbps           RGFW Throughput <sup>2, 4</sup> 22 G Gbps           System Performance and Capacity         PP4 Firewall Throughput (S12 dbyte, UDP)           164 / 163 / 153 Gbps         164 / 163 / 153 Gbps           Firewall Throughput (Packet per Second)         22.9.5 Mps           Concurrent Sessions (TCP)         16 Million           New Sessions/Second (TCP)         16 Million           New Sessions/Second (TCP)         10 000           Firewall Policies         10 000           SL Inspection Throughput         16.7 Gbps           Gateway-to-Gateway IPsec VPN Tunnels         50 000           SSL-VPN Throughput         10 Gbps           Concurrent SSL-VPN Users         10 000  |  |  |                       |  |
| Alt Point Number1USB Ports (Client / Server)2 / 2Console Port1Onboard StorageNo2× 480 GBTrusted Platform Module (TPM)○Bluetooth Low Energy (BLE)○Signed Firmware Hardware Switch-Included Transceivers2x SFP SXSystem Performance Enterprise Traffic MixIPS Throughput ²26 GbpsNGFW Throughput ².422 GbpsSystem Performance and CapacityIPv4 Firewall Throughput ?.520 GbpsSystem Performance and CapacityIPv6 Firewall Throughput file / 163 / 153 GbpsFirewall Throughput (Packet per Second)228.5 MpsConcurrent Sessions (TCP)164 / 163 / 153 GbpsFirewall Policies10 000IPsec VPN Throughput (512 byte)'55 GbpsGateway-to-Gateway IPsec VPN Tunnels2000Client-to-Gateway IPsec VPN Tunnels2000SSL-VPN Hroughput10 GbpsConcurrent SSL-VPN Users10 000(Ps, avg HTTPS)³18 000SSL Inspection Throughput (HTTP 64K)70 GbpsChapitacian Control Throughput (HTTP 64K)70 GbpsConcurrent SSL-VPN Users96Chapitacian Control Throughput (HTTP 64K)2048 / 1024   |  |  |                       |  |
| USB Ports (Client / Server)2 / 2Console Port1Onboard StorageNo2× 480 GBTrusted Platform Module (TPM)○Bluetooth Low Energy (BLE)○Signed Firmware Hardware Switch—Included Transceivers2x SFP SXSystem Performance — Enterprise Traffic MixPS Throughput <sup>2</sup> .IPS Throughput <sup>2.4</sup> 22 G GbpsSystem Performance and CapacityPV4 Firewall Throughput <sup>2.4</sup> PV4 Firewall Throughput <sup>2.4</sup> 20 GbpsSystem Performance and Capacity164 / 163 / 153 GbpsFirewall Throughput (Throughput 0)3.78 / 2.5 µs*Firewall Throughput (Packet per Second)229.5 MppsConcurrent Sessions (TCP)16 MillionNew Sessions/Second (TCP)720 000Firewall Policies10 000IPsec VPN Throughput10 GbpsGateway-to-Gateway IPsec VPN Tunnels2000SSL Inspection Throughput10 GbpsConcurrent SSL-VPN Users10 000SSL Inspection CP0 (IPS, avg. HTTPS) <sup>3</sup> 18 000SSL Inspection CP0 (IPS, avg. HTTPS) <sup>3</sup> 18 000SSL Inspection CP0 (IPS, avg. HTTPS) <sup>3</sup> 18 000SSL Inspection CP1 (IPTP 64K)70 GbpsCAPWAP Throughput (HTTP 64K)74.8 GbpsCAPWAP Throughput (HTTP 64K)70 GbpsVirtual Domains (Default / Maximum)10 / 10Maximum Number of FortiAPs2048 / 1024  |  |  |                       |  |
| Console Port1Onboard StorageNo2× 480 GBTrusted Platform Module (TPM)Image: Console PortImage: Console PortBluetooth Low Energy (BLE)Image: Console PortImage: Console PortSigned Firmware Hardware Switch——Included Transceivers2x SFP SXSystem Performance — Enterprise Traffic MixIPS Throughput 226 GbpsNGFW Throughput 2.422 GbpsThreat Protection Throughput 2.520 GbpsSystem Performance and CapacityImage: Console PortIPv4 Firewall Throughput164 / 163 / 153 Gbps(1518 / 512 / 64 byte, UDP)164 / 163 / 153 GbpsFirewall Throughput164 / 163 / 153 GbpsConcurrent Sessions (TCP)164 / 163 / 153 GbpsConcurrent Sessions (TCP)164 MillionNew Sessions/Second (TCP)720 000Firewall Ploicies10 000IPsec VPN Throughput (512 byte)155 GbpsGateway-to-Gateway IPsec VPN Tunnels2000Concurrent SSL-VPN Sers<br>(Recommended Maximum, Tunnel Mode)16.7 GbpsSSL Inspection Chroughput (HTTP 64K)70 GbpsChroughput (HTTP 64K)74.8 GbpsCAPWAP Throughput (HTTP 64K)70 GbpsVirtual Domains (Default / Maximum)10 / 10Maximum Number of FortiAPs<br>(Total / Tunnel)2048 / 1024  |  |  |                       |  |
| Onboard StorageNo2× 480 GBTrusted Platform Module (TPM)○Bluetooth Low Energy (BLE)○Signed Firmware Hardware Switch-Included Transceivers2x SFP SXSystem Performance — Enterprise Traffic MixIPS Throughput 226 GbpsNGFW Throughput 2.422 GbpsSystem Performance and CapacityIPV4 Firewall Throughput 1000IPV4 Firewall Throughput 1000IPV5 Firewall Throughput (Add byte, UDP)378 / 2.5 µs*Firewall Latency (64 byte, UDP)378 / 2.5 µsFirewall Throughput (Packet per Second)229.5 MppsConcurrent Sessions (TCP)164 MillionNew Sessions/Second (TCP)720 000Firewall Ploicies10 000IPsec VPN Throughput (512 byte)155 GbpsGateway-to-Gateway IPsec VPN Tunnels2000Client-to-Gateway IPsec VPN TunnelsSSL Inspection CPS (IPS, avg. HTTPS)318 000SSL Inspection CPS (IPS, avg. HTTPS)3SSL Inspection Concurrent Session(IPS, avg HTTPS)3Application Control Throughput (HTTP 64K)274.8 GbpsCAPWAP Throughput (HTTP 64K)274.8 GbpsCAPWAP Throughput (HTTP 64K)274.8 GbpsCAPWAP Throughput (HTTP 64K)274.8 GbpsChrush Number of FortiAPs2048 / 1024   |  |  |                       |  |
| Trusted Platform Module (TPM)<br>Bluetooth Low Energy (BLE)Signed Firmware Hardware SwitchIncluded Transceivers2x SFP SXSystem Performance — Enterprise Traffic MixIPS Throughput 226 GbpsNGFW Throughput 2.422 GbpsThreat Protection Throughput 2.520 GbpsSystem Performance and CapacityIPv4 Firewall Throughput164 / 163 / 153 Gbps[IPv6 Firewall Throughput164 / 163 / 153 Gbps(I518 / 512 / 64 byte, UDP)3.78 / 2.5 µs*Firewall Latency (64 byte, UDP)3.78 / 2.5 µs*Firewall Throughput164 / 163 / 153 GbpsConcurrent Sessions (TCP)16 MillionNew Sessions/Second (TCP)720 000Firewall Policies10 000IPsec VPN Throughput10 GbpsConcurrent Sessions (TCP)10 GbpsSSL-Nppection Throughput16.7 GbpsSSL-NPN Throughput16.7 GbpsSSL-NPN Throughput10 GbpsConcurrent SSL-VPN Users10 000SSL-Npection CPS (IPS, avg. HTTPS)³18 000SSL Inspection CPS (IPS, avg. HTTPS)³18 000SSL Inspection CPS (IPS, avg. HTTPS)³18 000SSL Inspection Concurrent Session1.6 Million(IPS, avg HTTPS)³18 000SSL Inspection Concurrent Session1.6 Million(IPS, avg HTTPS)³18 000SSL Inspection CPS (IPS, avg. HTTPS)³18 000SSL Inspection CPS (IPS, avg. HTTPS)³18 000SSL Inspection CPS (IPS, avg. HTTPS)³18 000SSL Insp  |  |  | 2× 480 GB             |  |
| Bluetooth Low Energy (BLE)OSigned Firmware Hardware Switch-Included Transceivers2x SFP SXSystem Performance — Enterprise Traffic MixIPS Throughput 2IPS Throughput 2.422 GbpsNGFW Throughput 2.422 GbpsSystem Performance and CapacityIPv4 Firewall Throughput 2.5IPv4 Firewall Throughput 164 / 163 / 153 GbpsIf 4 / 163 / 153 GbpsFirewall Throughput (1512 / 64 byte, UDP)3.78 / 2.5 µs*Firewall Throughput (Packet per Second)229.5 MppsConcurrent Sessions (TCP)16 MillionNew Sessions/Second (TCP)720 000Firewall Policies10 000IPsec VPN Throughput (512 byte)'55 GbpsGateway-to-Gateway IPsec VPN Tunnels2000SSL Inspection CPS (IPS, arg, HTTPS)318 000SSL Inspection CPS (IPS, arg, HTTPS)318 000SSL Inspection CPS (IPS, arg, HTTPS)316 MillionApplication Concurrent Session16 Million(IPS, arg HTTPS)318 000SSL Inspection CPS (IPS, arg, HTTPS)318 000SSL Inspection CPS (IPS, arg, HTTPS)318 000SSL Inspection CPS (IPS, arg, HTTPS)316 Million(IPS, arg HTTPS)396Virtual Domains (Default / Maximum)10 / 10Maximum Number of FortiAPs2048 / 1024  | -  | $\langle \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$ |                       |  |
| Signed Firmware Hardware Switch–Included Transceivers2x SFP SXSystem Performance — Enterprise Traffic MixIPS Throughput 2IPS Throughput 2.422 GbpsNGFW Throughput 2.422 GbpsSystem Performance and CapacityIPv4 Firewall Throughput 164 / 163 / 153 GbpsIPv4 Firewall Throughput 164 / 163 / 153 GbpsIfe / 163 / 153 GbpsFirewall Throughput (94 byte, UDP)3.78 / 2.5 µs*Firewall Throughput (94 byte, UDP)3.78 / 2.5 µs*Firewall Throughput (92 byte)229.5 MppsConcurrent Sessions (TCP)16 MillionNew Sessions/Second (TCP)720 000Firewall Policies10 000IPsec VPN Throughput (512 byte)¹55 GbpsGateway-to-Gateway IPsec VPN Tunnels2000Client-to-Gateway IPsec VPN Tunnels10 000SSL Inspection CPS (IPS, avg. HTTPS)³18 000SSL Inspection CPS (IPS, avg. HTTPS)³18 000SSL Inspection CPS (IPS, avg. HTTPS)³16 MillionApplication Concurrent Session16 Million(IPS, avg HTTPS)³18 000SSL Inspection Chroughput (HTTP 64K)70 GbpsVirtual Domains (Default / Maximum)10 / 10Maximum Number of FortiAPs96Maximum Number of FortiAPs2048 / 1024  |  | $\odot$  |                       |  |
| Included Transceivers2x SFP SXSystem Performance — Enterprise Traffic MixIPS Throughput 2IPS Throughput 226 GbpsNGFW Throughput 2.422 GbpsThreat Protection Throughput 2.520 GbpsSystem Performance and CapacityIPv4 Firewall ThroughputIPv4 Firewall Throughput164 / 163 / 153 GbpsIPv6 Firewall Throughput164 / 163 / 153 GbpsIPv6 Firewall Throughput164 / 163 / 153 GbpsIPv6 Firewall Throughput164 / 163 / 153 GbpsFirewall Throughput (Packet per Second)229.5 MppsConcurrent Sessions (TCP)16 MillionNew Sessions/Second (TCP)720 000Firewall Policies10 000IPsec VPN Throughput (512 byte)155 GbpsGateway-to-Gateway IPsec VPN Tunnels2000SSL Inspection Throughput10.7 Gbps(IPS, avg HTTPS)318 000SSL Inspection CPS (IPS, avg. HTTPS)318 000SSL Inspection Concurrent Session1.6 Million(IPS, avg HTTPS)318 000SSL Inspection Concurrent Session1.6 Million <t< th=""><th></th><td></td><th></th></t<>   |  |  |                       |  |
| System Performance — Enterprise Traffic MixIPS Throughput 226 GbpsNGFW Throughput 2.422 GbpsThreat Protection Throughput 2.520 GbpsSystem Performance and Capacity104 / 163 / 153 GbpsIPv4 Firewall Throughput (1518 / 512 / 64 byte, UDP)164 / 163 / 153 GbpsIPv6 Firewall Throughput (1518 / 512 / 86 byte, UDP)3.78 / 2.5 µs*Firewall Latency (64 byte, UDP)3.78 / 2.5 µs*Firewall Throughput (Packet per Second)229.5 MppsConcurrent Sessions (TCP)16 MillionNew Sessions/Second (TCP)720 000Firewall Policies10 000IPsec VPN Throughput (512 byte)'55 GbpsGateway-to-Gateway IPsec VPN Tunnels2000SSL-VPN Throughput (192 byte)16.7 GbpsSSL Inspection Throughput (HTTP 64K)274.8 GbpsChrourrent Session (CP)16.0 MillionSSL Inspection CPS (IPS, avg. HTTPS)318 000SSL Inspection CPS (IPS, avg. HTTPS)396CAPWAP Throughput (HTTP 64K)274.8 GbpsCAPWAP Through  | -  | 2x SFP S   | SX                    |  |
| IPS Throughput 226 GbpsNGFW Throughput 2.422 GbpsThreat Protection Throughput 2.520 GbpsSystem Performance and CapacityIPv4 Firewall Throughput<br>(1518 / 512 / 64 byte, UDP)164 / 163 / 153 GbpsIPv6 Firewall Throughput<br>(1518 / 512 / 86 byte, UDP)164 / 163 / 153 GbpsFirewall Latency (64 byte, UDP)3.78 / 2.5 µs*Firewall Throughput (Packet per Second)229.5 MppsConcurrent Sessions (TCP)16 MillionNew Sessions/Second (TCP)720 000Firewall Policies10 000IPsec VPN Throughput (512 byte)¹55 GbpsGateway-to-Gateway IPsec VPN Tunnels2000SSL-VPN Throughput<br>(IPS, avg HTTPS)³16.7 GbpsSSL Inspection Chocurrent Session<br>(IPS, avg HTTPS)³18 000SSL Inspection Concurrent Session<br>(IPS, avg HTTPS)³18 000SSL Inspection Concurrent Session<br>(IPS, avg HTTPS)³10 GbpsCAPWAP Throughput (HTTP 64K)274.8 GbpsCAPWAP Throughput (HTTP 64K)270 GbpsVirtual Domains (Default / Maximum)10 / 10Maximum Number of FortiAPs<br>Cupported96Maximum Number of FortiAPs<br>Cutal Tunnels2048 / 1024  |  |  |                       |  |
| NGFW Throughput <sup>2,4</sup> 22 GbpsThreat Protection Throughput <sup>2,5</sup> 20 GbpsSystem Performance and Capacity164 / 163 / 153 GbpsIPv4 Firewall Throughput (1518 / 512 / 64 byte, UDP)164 / 163 / 153 GbpsFirewall Throughput (1518 / 512 / 86 byte, UDP)3.78 / 2.5 µs*Firewall Latency (64 byte, UDP)3.78 / 2.5 µs*Firewall Throughput (Packet per Second)229.5 MppsConcurrent Sessions (TCP)16 MillionNew Sessions/Second (TCP)720 000Firewall Policies10 000IPsec VPN Throughput (512 byte) <sup>1</sup> 55 GbpsGateway-to-Gateway IPsec VPN Tunnels2000SSL-VPN Throughput10 GbpsConcurrent SSL-VPN Users<br>(Recommended Maximum, Tunnel Mode)10.000SSL Inspection Throughput (HTTP 64K)274.8 GbpsCAPWAP Throughput (HTTP 64K)70 GbpsVirtual Domains (Default / Maximum)10 / 10Maximum Number of FortiSwitches<br>Supported96Maximum Number of FortiSwitches<br>Coreut Recommended Maximum, Tunnel2048 / 1024   |  | 26 Gbp   | IS                    |  |
| System Performance and CapacityIPv4 Firewall Throughput<br>(1518 / 512 / 64 byte, UDP)164 / 163 / 153 GbpsIPv6 Firewall Throughput<br>(1518 / 512 / 86 byte, UDP)164 / 163 / 153 GbpsFirewall Latency (64 byte, UDP)3.78 / 2.5 µs*Firewall Throughput (Packet per Second)229.5 MppsConcurrent Sessions (TCP)16 MillionNew Sessions/Second (TCP)720 000Firewall Policies10 000IPsec VPN Throughput (512 byte)155 GbpsGateway-to-Gateway IPsec VPN Tunnels2000SSL-VPN Throughput10 GbpsConcurrent SSL-VPN Users<br>(Recommended Maximum, Tunnel Mode)16.7 GbpsSSL Inspection CPS (IPS, avg. HTTPS)318 000SSL Inspection CPS (IPS, avg. HTTPS)316 MillionApplication Control Throughput (HTTP 64K)70 GbpsVirtual Domains (Default / Maximum)10 / 10Maximum Number of FortiSwitches<br>upported96Maximum Number of FortiSwitches<br>Concurrent)2048 / 1024  |  |  |                       |  |
| System Performance and CapacityIPv4 Firewall Throughput<br>(1518 / 512 / 64 byte, UDP)164 / 163 / 153 GbpsIPv6 Firewall Throughput<br>(1518 / 512 / 86 byte, UDP)164 / 163 / 153 GbpsFirewall Latency (64 byte, UDP)3.78 / 2.5 µs*Firewall Throughput (Packet per Second)229.5 MppsConcurrent Sessions (TCP)16 MillionNew Sessions/Second (TCP)720 000Firewall Policies10 000IPsec VPN Throughput (512 byte)'55 GbpsGateway-to-Gateway IPsec VPN Tunnels2000SSL-VPN Throughput10 GbpsConcurrent SSL-VPN Users<br>(Recommended Maximum, Tunnel Mode)16.7 GbpsSSL Inspection CPS (IPS, avg. HTTPS)'318 000SSL Inspection Concurrent Session<br>(IPS, avg HTTPS)'31.6 MillionApplication Control Throughput (HTTP 64K)70 GbpsVirtual Domains (Default / Maximum)10 / 10Maximum Number of FortiSwitches<br>upported96Maximum Number of FortiSwitches<br>(Total / Tunnel)2048 / 1024   | Threat Protection Throughput <sup>2,5</sup>            | 20 Gbp   | S                     |  |
| (1518 / 512 / 64 byte, UDP)IPv6 Firewall Throughput<br>(1518 / 512 / 86 byte, UDP)164 / 163 / 153 GbpsFirewall Latency (64 byte, UDP)3.78 / 2.5 µs*Firewall Throughput (Packet per Second)229.5 MppsConcurrent Sessions (TCP)16 MillionNew Sessions/Second (TCP)720 000Firewall Policies10 000IPsec VPN Throughput (512 byte)155 GbpsGateway-to-Gateway IPsec VPN Tunnels2000Client-to-Gateway IPsec VPN Tunnels50 000SSL-VPN Throughput10 GbpsConcurrent SSL-VPN Users<br>(IPS, avg HTTPS)316.7 GbpsSSL Inspection Throughput<br>(IPS, avg HTTPS)316.7 GbpsSSL Inspection Concurrent Session<br>(IPS, avg HTTPS)31.6 MillionApplication Control Throughput (HTTP 64K)274.8 GbpsCAPWAP Throughput (HTTP 64K)70 GbpsVirtual Domains (Default / Maximum)10 / 10Maximum Number of FortiSwitches<br>supported96Maximum Number of FortiSwitches<br>supported2048 / 1024  | System Performance and Capacity                        |  |                       |  |
| (1518 / 512 / 86 bytë, UDP)3.78 / 2.5 µs*Firewall Latency (64 byte, UDP)3.78 / 2.5 µs*Firewall Throughput (Packet per Second)229.5 MppsConcurrent Sessions (TCP)16 MillionNew Sessions/Second (TCP)720 000Firewall Policies10 000IPsec VPN Throughput (512 byte)155 GbpsGateway-to-Gateway IPsec VPN Tunnels2000Concurrent Sester VPN Tunnels2000SSL-VPN Throughput10 GbpsConcurrent SSL-VPN Users<br>(Recommended Maximum, Tunnel Mode)SSL Inspection Throughput<br>(IPS, avg HTTPS)316.7 GbpsSSL Inspection CPS (IPS, avg. HTTPS)318 000SSL Inspection Concurrent Session<br>(IPS, avg HTTPS)31.6 MillionApplication Control Throughput (HTTP 64K)274.8 GbpsCAPWAP Throughput (HTTP 64K)270 GbpsVirtual Domains (Default / Maximum)10 / 10Maximum Number of FortiSwitches<br>upported96Maximum Number of FortiSwitches<br>2048 / 1024   | IPv4 Firewall Throughput                               | 164 / 163 / 15   | 3 Gbps                |  |
| Firewall Throughput (Packet per Second)229.5 MppsConcurrent Sessions (TCP)16 MillionNew Sessions/Second (TCP)720 000Firewall Policies10 000IPsec VPN Throughput (512 byte)155 GbpsGateway-to-Gateway IPsec VPN Tunnels2000Client-to-Gateway IPsec VPN Tunnels50 000SSL-VPN Throughput10 GbpsConcurrent SSL-VPN Users<br>(Recommended Maximum, Tunnel Mode)10 000SSL Inspection Throughput<br>(IPS, avg HTTPS)316.7 GbpsSSL Inspection CPS (IPS, avg. HTTPS)318 000SSL Inspection Concurrent Session<br>(IPS, avg HTTPS)31.6 MillionApplication Control Throughput (HTTP 64K)274.8 GbpsCAPWAP Throughput (HTTP 64K)70 GbpsVirtual Domains (Default / Maximum)10 / 10Maximum Number of FortiSwitches<br>upported96Maximum Number of FortiAPs<br>(Total / Tunnel)2048 / 1024   |  | 164 / 163 / 153 Gbps   |                       |  |
| Concurrent Sessions (TCP)16 MillionNew Sessions/Second (TCP)720 000Firewall Policies10 000IPsec VPN Throughput (512 byte)155 GbpsGateway-to-Gateway IPsec VPN Tunnels2000Client-to-Gateway IPsec VPN Tunnels50 000SSL-VPN Throughput10 GbpsConcurrent SSL-VPN Users<br>(Recommended Maximum, Tunnel Mode)16.7 GbpsSSL Inspection Throughput<br>(IPS, avg HTTPS)318 000SSL Inspection CPS (IPS, avg. HTTPS)318 000SSL Inspection Concurrent Session<br>(IPS, avg HTTPS)31.6 MillionApplication Control Throughput (HTTP 64K)274.8 GbpsCAPWAP Throughput (JHTP 64K)70 GbpsVirtual Domains (Default / Maximum)10 / 10Maximum Number of FortiSwitches<br>(Total / Tunnel)96   | Firewall Latency (64 byte, UDP)                        | 3.78 / 2.5   | µs*                   |  |
| New Sessions/Second (TCP)720 000Firewall Policies10 000IPsec VPN Throughput (512 byte)155 GbpsGateway-to-Gateway IPsec VPN Tunnels2000Client-to-Gateway IPsec VPN Tunnels50 000SSL-VPN Throughput10 GbpsConcurrent SSL-VPN Users<br>(Recommended Maximum, Tunnel Mode)16.7 GbpsSSL Inspection Throughput<br>(IPS, avg HTTPS)318 000SSL Inspection CPS (IPS, avg. HTTPS)318 000SSL Inspection Concurrent Session<br>(IPS, avg HTTPS)31.6 MillionApplication Control Throughput (HTTP 64K)274.8 GbpsVirtual Domains (Default / Maximum)10 / 10Maximum Number of FortiSwitches<br>(Total / Tunnel)96   | Firewall Throughput (Packet per Second)                | 229.5 Mpps   |                       |  |
| Firewall Policies10 000IPsec VPN Throughput (512 byte)155 GbpsGateway-to-Gateway IPsec VPN Tunnels2000Client-to-Gateway IPsec VPN Tunnels50 000SSL-VPN Throughput10 GbpsConcurrent SSL-VPN Users<br>(Recommended Maximum, Tunnel Mode)10 000SSL Inspection Throughput<br>(IPS, avg HTTPS)316.7 GbpsSSL Inspection CPS (IPS, avg. HTTPS)318 000SSL Inspection Concurrent Session<br>(IPS, avg HTTPS)31.6 MillionApplication Control Throughput (HTTP 64K)274.8 GbpsCAPWAP Throughput (HTTP 64K)70 GbpsVirtual Domains (Default / Maximum)10 / 10Maximum Number of FortiSwitches<br>(Total / Tunnel)96  | Concurrent Sessions (TCP)                              | 16 Millio  | n                     |  |
| IPsec VPN Throughput (512 byte)155 GbpsGateway-to-Gateway IPsec VPN Tunnels2000Client-to-Gateway IPsec VPN Tunnels50 000SSL-VPN Throughput10 GbpsConcurrent SSL-VPN Users<br>(Recommended Maximum, Tunnel Mode)10 000SSL Inspection Throughput<br>(IPS, avg HTTPS)316.7 GbpsSSL Inspection CPS (IPS, avg. HTTPS)318 000SSL Inspection Concurrent Session<br>(IPS, avg HTTPS)31.6 MillionApplication Control Throughput (HTTP 64K)274.8 GbpsCAPWAP Throughput (HTTP 64K)70 GbpsVirtual Domains (Default / Maximum)10 / 10Maximum Number of FortiSwitches<br>(Total / Tunnel)96   | New Sessions/Second (TCP)                              | 720 00   | 0                     |  |
| Gateway-to-Gateway IPsec VPN Tunnels2000Client-to-Gateway IPsec VPN Tunnels50 000SSL-VPN Throughput10 GbpsConcurrent SSL-VPN Users<br>(Recommended Maximum, Tunnel Mode)10 000SSL Inspection Throughput<br>(IPS, avg HTTPS) <sup>3</sup> 18.7 GbpsSSL Inspection CPS (IPS, avg. HTTPS) <sup>3</sup> 18 000SSL Inspection Concurrent Session<br>(IPS, avg HTTPS) <sup>3</sup> 1.6 MillionApplication Control Throughput (HTTP 64K) <sup>2</sup> 74.8 GbpsCAPWAP Throughput (HTTP 64K)70 GbpsVirtual Domains (Default / Maximum)10 / 10Maximum Number of FortiSwitches<br>Upported96Maximum Number of FortiAPs<br>(Total / Tunnel)2048 / 1024   | Firewall Policies                                      | 10 000   | )                     |  |
| Client-to-Gateway IPsec VPN Tunnels50 000SSL-VPN Throughput10 GbpsConcurrent SSL-VPN Users<br>(Recommended Maximum, Tunnel Mode)10 000SSL Inspection Throughput<br>(IPS, avg HTTPS) <sup>3</sup> 16.7 GbpsSSL Inspection CPS (IPS, avg. HTTPS) <sup>3</sup> 18 000SSL Inspection Concurrent Session<br>(IPS, avg HTTPS) <sup>3</sup> 1.6 MillionApplication Control Throughput (HTTP 64K) <sup>2</sup> 74.8 GbpsCAPWAP Throughput (HTTP 64K)70 GbpsVirtual Domains (Default / Maximum)10 / 10Maximum Number of FortiSwitches<br>Supported96Maximun Number of FortiAPs<br>(Total / Tunnel)2048 / 1024  | IPsec VPN Throughput (512 byte) <sup>1</sup>           | 55 Gbp   | S                     |  |
| SSL-VPN Throughput10 GbpsConcurrent SSL-VPN Users<br>(Recommended Maximum, Tunnel Mode)10 000SSL Inspection Throughput<br>(IPS, avg HTTPS)³16.7 GbpsSSL Inspection CPS (IPS, avg. HTTPS)³18 000SSL Inspection Concurrent Session<br>(IPS, avg HTTPS)³1.6 MillionSSL Inspection Concurrent Session<br>(IPS, avg HTTPS)³1.6 MillionCAPWAP Throughput (HTTP 64K)70 GbpsVirtual Domains (Default / Maximum)10 / 10Maximum Number of FortiSwitches<br>(Total / Tunnel)96   | Gateway-to-Gateway IPsec VPN Tunnels                   | 2000   |                       |  |
| Concurrent SSL-VPN Users<br>(Recommended Maximum, Tunnel Mode)10 000SSL Inspection Throughput<br>(IPS, avg HTTPS)316.7 GbpsSSL Inspection CPS (IPS, avg. HTTPS)318 000SSL Inspection Concurrent Session<br>(IPS, avg HTTPS)31.6 MillionApplication Control Throughput (HTTP 64K)274.8 GbpsCAPWAP Throughput (HTTP 64K)70 GbpsVirtual Domains (Default / Maximum)10 / 10Maximum Number of FortiSwitches<br>(Total / Tunnel)96  | Client-to-Gateway IPsec VPN Tunnels                    | 50 000   | )                     |  |
| (Recommended Maximum, Tunnel Mode)         SSL Inspection Throughput<br>(IPS, avg HTTPS) <sup>3</sup> 16.7 Gbps         SSL Inspection CPS (IPS, avg. HTTPS) <sup>3</sup> 18 000         SSL Inspection Concurrent Session<br>(IPS, avg HTTPS) <sup>3</sup> 1.6 Million         Application Control Throughput (HTTP 64K) <sup>2</sup> 74.8 Gbps         CAPWAP Throughput (HTTP 64K)       70 Gbps         Virtual Domains (Default / Maximum)       10 / 10         Maximum Number of FortiSwitches<br>upported       96         Maximum Number of FortiAPs<br>(Total / Tunnel)       2048 / 1024   | SSL-VPN Throughput                                     | 10 Gbp   | S                     |  |
| (IPS, avg HTTPS) <sup>3</sup> 18 000         SSL Inspection CPS (IPS, avg. HTTPS) <sup>3</sup> 18 000         SSL Inspection Concurrent Session<br>(IPS, avg HTTPS) <sup>3</sup> 1.6 Million         Application Control Throughput (HTTP 64K) <sup>2</sup> 74.8 Gbps         CAPWAP Throughput (HTTP 64K)       70 Gbps         Virtual Domains (Default / Maximum)       10 / 10         Maximum Number of FortiSwitches<br>upported       96         Maximum Number of FortiAPs<br>(Total / Tunnel)       2048 / 1024  |  | 10 000   | )                     |  |
| SSL Inspection Concurrent Session1.6 Million(IPS, avg HTTPS)³1.6 MillionApplication Control Throughput (HTTP 64K)²74.8 GbpsCAPWAP Throughput (HTTP 64K)70 GbpsVirtual Domains (Default / Maximum)10 / 10Maximum Number of FortiSwitches<br>Supported96Maximum Number of FortiAPs<br>(Total / Tunnel)2048 / 1024   |  | 16.7 Gb  | ps                    |  |
| (IPS, avg HTTPS) <sup>3</sup> Application Control Throughput (HTTP 64K) <sup>2</sup> 74.8 Gbps         CAPWAP Throughput (HTTP 64K)       70 Gbps         Virtual Domains (Default / Maximum)       10 / 10         Maximum Number of FortiSwitches       96         Supported       2048 / 1024  | SSL Inspection CPS (IPS, avg. HTTPS) <sup>3</sup>      | 18 000   | )                     |  |
| CAPWAP Throughput (HTTP 64K)     70 Gbps       Virtual Domains (Default / Maximum)     10 / 10       Maximum Number of FortiSwitches     96       Supported     2048 / 1024       Maximum Number of FortiAPs     2048 / 1024  |  | 1.6 Million  |                       |  |
| Virtual Domains (Default / Maximum)       10 / 10         Maximum Number of FortiSwitches       96         Maximum Number of FortiAPs       2048 / 1024         (Total / Tunnel)       2048 / 1024  | Application Control Throughput (HTTP 64K) <sup>2</sup> | 74.8 Gb  | ps                    |  |
| Maximum Number of FortiSwitches     96       Supported     96       Maximum Number of FortiAPs     2048 / 1024       (Total / Tunnel)     2048 / 1024   | CAPWAP Throughput (HTTP 64K)                           | 70 Gbps  |                       |  |
| Supported Maximum Number of FortiAPs 2048 / 1024 (Total / Tunnel)   | Virtual Domains (Default / Maximum)                    | 10 / 10  |                       |  |
| (Total / Tunnel)  |  | 96   |                       |  |
| Maximum Number of FortiTokens 5000  |  | 2048 / 10  | )24                   |  |
|   | Maximum Number of FortiTokens                          | 5000   |                       |  |
| High Availability Configurations Active-Active, Active-Passive, Clustering  | High Availability Configurations                       | Active-Active, Active-P  | assive, Clustering    |  |

<sup>1</sup> IPsec VPN performance test uses AES256-SHA256.

 $^{\rm 2}$  IPS (Enterprise Mix), Application Control, NGFW and Threat Protection are measured with Logging enabled.

<sup>3</sup> SSL Inspection performance values use an average of HTTPS sessions of different cipher suites.

**Dimensions and Power** 1.5 × 17.0 × 15.0 Height x Width x Length (inches) Height x Width x Length (mm) 44.45 × 432 × 380 15.98 lbs (7.25 kg) 16.53 lbs (7.5 kg) Weight Form Factor (supports EIA/non-EIA standards) Rack Mount, 1RU 100-240VAC, 50/60 Hz AC Power Supply AC Current (Maximum) 6A@100VAC 48-60VDC DC Power Supply DC Current (Maximum) 7A@48V Power Consumption (Average / Maximum) 144 W / 264 W 134 W / 252 W Heat Dissipation 861 BTU/h 902 BTU/h 80Plus Compliant Power Supply Efficiency Rating Redundant Power Supplies (comes with 2PSU default) (Hot Swappable) **Operating Environment and Certifications** 32°F to 113°F (0°C to 45°C) **Operating Temperature** -31°F to 158°F (-35°C to 70°C) Storage Temperature Humidity 10% to 90% non-condensing Noise Level 58 dBA Forced Airflow Side and Front to Back Up to 10 000 ft (3048 m) **Operating Altitude** Compliance FCC Part 15 Class A, RCM, VCCI, CE, UL/cUL, CB USGv6/IPv6 Certifications

FG-900G FG-900G-DC

\* Latency based on Ultra Low Latency (ULL) ports.

<sup>4</sup> NGFW performance is measured with Firewall, IPS and Application Control enabled.

<sup>5</sup> Threat Protection performance is measured with Firewall, IPS, Application Control and Malware Protection enabled.

FG-901G FG-901G-DC

### **Subscriptions**

|                             |   |            | Bundles                              |                              |                               |  |
|-----------------------------|---|------------|--------------------------------------|------------------------------|-------------------------------|--|
| Service Category            | Service Offering  | A-la-carte | Enterprise<br>Protection             | Unified Threat<br>Protection | Advanced Threat<br>Protection |  |
| FortiGuard Security         | IPS — IPS, Malicious/Botnet URLs  | •          | •                                    | •                            | •                             |  |
| Services                    | Anti-Malware Protection (AMP)—AV, Botnet Domains, Mobile Malware,<br>Virus Outbreak Protection, Content Disarm and Reconstruct <sup>3</sup> ,<br>Al-based Heurestic AV, FortiGate Cloud Sandbox | •          | •                                    | •                            | •                             |  |
|                             | URL, DNS and Video Filtering — URL, DNS and Video <sup>3</sup> Filtering, Malicious Certificate   | •          | •                                    | •                            |                               |  |
|                             | Anti-Spam   |            | •                                    | •                            |                               |  |
|                             | Al-based Inline Malware Prevention <sup>3</sup>   | •          | •                                    |                              |                               |  |
|                             | Data Loss Prevention (DLP) 1  | •          | •                                    |                              |                               |  |
|                             | Attack Surface Security — IoT Device Detection, IoT Vulnerability<br>Correlation and Virtual Patching, Security Rating, Outbreak Check  | •          | •                                    |                              |                               |  |
|                             | OT Security—OT Device Detection, OT vulnerability correlation and<br>Virtual Patching, OT Application Control and IPS <sup>1</sup>  | •          |                                      |                              |                               |  |
|                             | Application Control   |            | included with FortiCare Subscription |                              |                               |  |
|                             | Inline CASB <sup>3</sup>  |            | included with For                    | tiCare Subscription          |                               |  |
| SD-WAN and SASE<br>Services | SD-WAN Underlay Bandwidth and Quality Monitoring  | •          |                                      |                              |                               |  |
| Services                    | SD-WAN Overlay-as-a-Service   | •          |                                      |                              |                               |  |
|                             | SD-WAN Connector for FortiSASE Secure Private Access  | •          |                                      |                              |                               |  |
|                             | SASE connector for FortiSASE Secure Edge Management (with 10Mbps Bandwidth) <sup>2</sup>  | •          |                                      |                              |                               |  |
| NOC and SOC<br>Services     | FortiConverter Service for one time configuration conversion  | •          | •                                    |                              |                               |  |
|                             | Managed FortiGate Service—available 24×7, with Fortinet NOC experts<br>performing device setup, network, and policy change management   | ٠          |                                      |                              |                               |  |
|                             | FortiGate Cloud—Management, Analysis, and One Year Log Retention  | •          |                                      |                              |                               |  |
|                             | FortiManager Cloud  | •          |                                      |                              |                               |  |
|                             | FortiAnalyzer Cloud   | •          |                                      |                              |                               |  |
|                             | FortiGuard SOCaaS—24×7 cloud-based managed log monitoring,<br>incident triage, and SOC escalation service   | •          |                                      |                              |                               |  |
| Hardware and                | FortiCare Essentials <sup>2</sup>   | •          |                                      |                              |                               |  |
| Software Support            | FortiCare Premium   | •          | •                                    | •                            | •                             |  |
|                             | FortiCare Elite   | •          |                                      |                              |                               |  |
| Base Services               | Device/OS Detection, GeoIPs, Trusted CA Certificates, Internet<br>Services and Botnet IPs, DDNS (v4/v6), Local Protection, PSIRT Check,<br>Anti-Phishing  |            | included with For                    | tiCare Subscription          |                               |  |
|                             |   |            |                                      |                              |                               |  |

1. Full features available when running FortiOS 7.4.1.

2. Desktop Models only.

3. Not available for FortiGate/FortiWiFi 40F, 60E, 60F, 80E, and 90E series from 7.4.4 onwards.



### **FortiGuard Bundles**

FortiGuard AI-Powered Security Bundles provide a comprehensive and meticulously curated selection of security services to combat known, unknown, zero-day, and emerging AI-based threats. These services are designed to prevent malicious content from breaching your defenses, protect against web-based threats, secure devices throughout IT/OT/IoT environments, and ensure the safety of applications, users, and data. All bundles include FortiCare Premium Services featuring 24×7×365 availability, one-hour response for critical issues, and next-business-day response for noncritical matters.

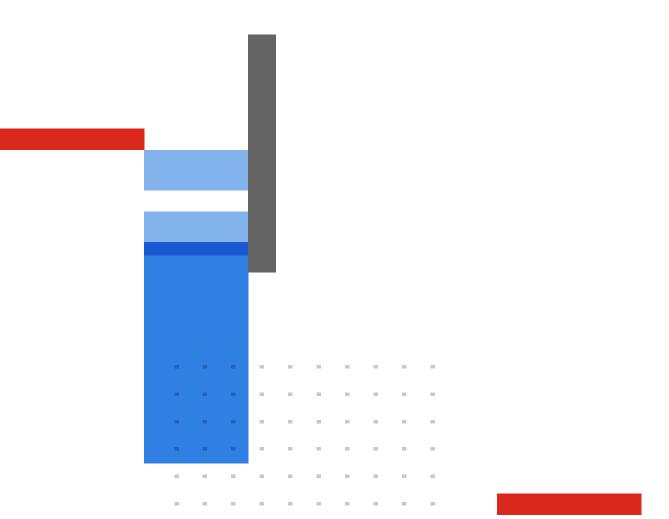
## **Ordering Information**

| Product   | SKU              | Description   |
|---|------------------|---|
| FortiGate 900G  | FG-900G          | 4× 25G SFP28 slots, 4× 10GE SFP+ slots, 17x GE RJ45 ports (including 1x MGMT port,<br>16x switch ports), 1× 2.5G HA port, 8x GE SFP slots, SPU NP7 and CP9 hardware accelerated,<br>dual AC PSU.                                |
| FortiGate-900G-DC   | FG-900G-DC       | 4× 25G SFP28 slots, 4× 10GE SFP+ slots, 17x GE RJ45 ports (including 1x MGMT port,<br>16x switch ports), 1× 2.5G HA port, 8x GE SFP slots, SPU NP7 and CP9 hardware accelerated,<br>dual DC PSU.                                |
| FortiGate 901G  | FG-901G          | 4× 25G SFP28 slots, 4× 10GE SFP+ slots, 17x GE RJ45 ports (including 1x MGMT port,<br>16x switch ports), 1× 2.5G HA port, 8x GE SFP slots, SPU NP7 and CP9 hardware accelerated,<br>2× 480 GB onboard SSD storage, dual AC PSU. |
| FortiGate-901G-DC   | FG-901G-DC       | 4× 25G SFP28 slots, 4× 10GE SFP+ slots, 17x GE RJ45 ports (including 1x MGMT port,<br>16x switch ports), 1× 2.5G HA port, 8x GE SFP slots, SPU NP7 and CP9 hardware accelerated,<br>2× 480GB onboard SSD storage, dual DC PSU.  |
| Optional Accessories  |                  |   |
| AC Power Supply   | SP-FG400F-PS     | AC power supply for FG-400/401F, FG-600/601F, and FG-900/901G power cable SP-FGPCOR-XX sold separately.   |
| DC Power Supply   | SP-FG400F-DC-PS  | DC power supply for FG-400/401F-DC and FG-900/901G-DC, comes with 3m DC cable.  |
| Transceivers  |                  |   |
| 1 GE SFP LX Transceiver Module  | FN-TRAN-LX       | 1 GE SFP LX transceiver module for all systems with SFP and SFP/SFP+ slots.   |
| 1 GE SFP RJ45 Transceiver Module  | FN-TRAN-GC       | 1 GE SFP RJ45 transceiver module for all systems with SFP and SFP/SFP+slots.  |
| 1 GE SFP SX Transceiver Module  | FN-TRAN-SX       | 1 GE SFP SX transceiver module for all systems with SFP and SFP/SFP+ slots.   |
| 10 GE SFP+ RJ45 Transceiver Module  | FN-TRAN-SFP+GC   | 10 GE SFP+ RJ45 transceiver module for systems with SFP+ slots.   |
| 10 GE SFP+ Transceiver Module, Short Range  | FN-TRAN-SFP+SR   | 10 GE SFP+ transceiver module, short range for all systems with SFP+ and SFP/SFP+ slots.  |
| 10 GE SFP+ Transceiver Module, Long Range   | FN-TRAN-SFP+LR   | 10 GE SFP+ transceiver module, long range for all systems with SFP+ and SFP/SFP+ slots.   |
| 10 GE SFP+ Transceiver Module, Extended Range   | FN-TRAN-SFP+ER   | 10 GE SFP+ transceiver module, extended range for all systems with SFP+ and SFP/SFP+ slots.   |
| 10 GE SFP+ Transceiver Module, 30km Long Range  | FN-TRAN-SFP+BD27 | 10 GE SFP+ transceiver module, 30km long range single BiDi for systems with SFP+ and SFP/<br>SFP+ slots (connects to FN-TRAN-SFP+BD33, ordered separately).   |
| 10 GE SFP+ Transceiver Module, (connects to FN-<br>TRAN-SFP+BD27, ordered separately) | FN-TRAN-SFP+BD33 | 10 GE SFP+ transceiver module, 30km long range single BiDi for systems with SFP+ and SFP/<br>SFP+ slots (connects to FN-TRAN-SFP+BD27, ordered separately).   |
| 10 GE SFP+ Transceiver Module, 80km Extreme Long<br>Range                             | FN-TRAN-SFP+ZR   | 10 GE SFP+ transceiver module, 80km extreme long range, for systems with SFP+ and SFP/SFP+ slots.   |
| 10 GE SFP+ Transceiver Module, Extended Range   | FS-TRAN-SFP+ER   | 10 GE SFP+ transceivers, extended range for all systems with SFP+ slots.  |
| 25 GE SFP28 Transceiver Module, Short Range   | FN-TRAN-SFP28-SR | 25 GE SFP28 transceiver module, short range for all systems with SFP28 slots.   |
| 25 GE SFP28 Transceiver Module, Long Range  | FN-TRAN-SFP28-LR | 25 GE SFP28 transceiver module, long range for all systems with SFP28 slots.  |
| Cables  |                  |   |
| 10 GE SFP+ Active Direct Attach Cable, 10m / 32.8 ft                                  | SP-CABLE-ADASFP+ | 10 GE SFP+ active direct attach cable, 10m / 32.8 ft for all systems with SFP+ and SFP/SFP+ slots.  |
| 25 GE SFP28 Passive Direct Attach Cable   | FN-CABLE-SFP28-1 | 25 GE SFP28 passive direct attach cable 1m for systems with SFP28 slots.  |
| 25 GE SFP28 Passive Direct Attach Cable   | FN-CABLE-SFP28-3 | 25 GE SFP28 passive direct attach cable 3m for systems with SFP28 slots.  |
| 25 GE SFP28 Passive Direct Attach Cable   | FN-CABLE-SFP28-5 | 25 GE SFP28 passive direct attach cable 5m for systems with SFP28 slots.  |
|   |                  |   |

Visit <u>https://www.fortinet.com/resources/ordering-guides</u> for related ordering guides.

### Fortinet Corporate Social Responsibility Policy

Fortinet is committed to driving progress and sustainability for all through cybersecurity, with respect for human rights and ethical business practices, making possible a digital world you can always trust. You represent and warrant to Fortinet that you will not use Fortinet's products and services to engage in, or support in any way, violations or abuses of human rights, including those involving illegal censorship, surveillance, detention, or excessive use of force. Users of Fortinet products are required to comply with the Fortinet EULA and report any suspected violations of the EULA via the procedures outlined in the Fortinet Whistleblower Policy.



# F

www.fortinet.com

Copyright © 2024 Fortinet, Inc. All rights reserved. Fortinet®, FortiGate®, FortiGate®, FortiGate®, FortiGate®, and FortiGate®, and certain other marks are registered trademarks of Fortinet, Inc., and other Fortinet names herein may also be registered and/or common law trademarks of Fortinet. All other product or company names may be trademarks of their respective owners. Performance and other metrics contained herein were attained in internal lab tests under ideal conditions, and actual performance and other results may vary. Network variables, different network environments and other received executions and strate metrics a binding commitment by Portinet, and Fortinet disclaims all warranties, whether express or implied, except to the extent Fortine tenters a binding written contract, signed by Fortinets YD Legal and above, with a purchaser that expressly warrants that the identified product will perform according to certain expressly-identified performance metrics and, in such event, only the specific performance metrics expressly identified in such binding written contract shall be binding on Fortinet. For absolute clarity, any such warranty will be limited to performance in the same ideal conditions as in Fortinet's tests. Fortinet disclaims in full any covenants, representations, and guarantees pursuant hereto, whether express or implied. Fortinet reserves the right to change, modify, transfer, or otherwise revies this publication without notice, and the most current version of the publication shall be applicable.