FortiGate 4400F Series
FG-4400F/-DC and 4401F/-DC

High performance with flexibility

The FortiGate 4400F Series enables organizations to build security-driven networks that can weave security deep into their datacenter and across their hybrid IT architecture to protect any edge at any scale.

Powered by a rich set of AI/ML-based FortiGuard Services and an integrated security fabric platform, the FortiGate 4400F Series delivers coordinated, automated, end-to-end threat protection across all use cases.

The industry's first integrated Zero Trust Network Access (ZTNA) enforcement within an NGFW solution, FortiGate 4400F automatically controls, verifies, and facilitates user access to applications delivering consistent convergence with a seamless user experience.

<table>
<thead>
<tr>
<th>IPS</th>
<th>NGFW</th>
<th>Threat Protection</th>
<th>Interfaces</th>
</tr>
</thead>
<tbody>
<tr>
<td>94 Gbps</td>
<td>82 Gbps</td>
<td>75 Gbps</td>
<td>Multiple GE RJ45, 25 GE SFP28 / 10 GE SFP+ / GE SFP and 100 GE QSFP28 / 40 GE QSFP+ slots</td>
</tr>
</tbody>
</table>
FortiOS Everywhere

FortiOS, Fortinet’s advanced operating system

FortiOS enables the convergence of high performing networking and security across the Fortinet Security Fabric. Because it can be deployed anywhere, it delivers consistent and context-aware security posture across network, endpoint, and multi-cloud environments.

FortiOS powers all FortiGate deployments whether a physical or virtual device, as a container, or as a cloud service. This universal deployment model enables the consolidation of many technologies and use cases into a simplified, single policy and management framework. Its organically built best-of-breed capabilities, unified operating system, and ultra-scalability allows organizations to protect all edges, simplify operations, and run their business without compromising performance or protection.

FortiOS dramatically expands the Fortinet Security Fabric’s ability to deliver advanced AI/ML-powered services, inline advanced sandbox detection, integrated ZTNA enforcement, and more, provides protection across hybrid deployment models for hardware, software, and Software-as-a-Service with SASE.

FortiOS expands visibility and control, ensures the consistent deployment and enforcement of security policies, and enables centralized management across large-scale networks with the following key attributes:

- Interactive drill-down and topology viewers that display real-time status
- On-click remediation that provides accurate and quick protection against threats and abuses
- Unique threat score system correlates weighted threats with users to prioritize investigations

FortiConverter Service

FortiConverter Service provides hassle-free migration to help organizations transition from a wide range of legacy firewalls to FortiGate Next-Generation Firewalls quickly and easily. 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.
FortiGuard Services

FortiGuard AI-Powered Security
FortiGuard's rich suite of security services counter threats in real time using AI-powered, coordinated protection designed by FortiGuard Labs security threat researchers, engineers, and forensic specialists.

Web Security
Advanced cloud-delivered URL, DNS (Domain Name System), and Video Filtering providing complete protection for phishing and other web born attacks while meeting compliance.
Additionally, its dynamic inline CASB (Cloud Access Security Broker) service is focused on securing business SaaS data, while inline ZTNA traffic inspection and ZTNA posture check provide per-sessions access control to applications. It also integrates with the FortiClient Fabric Agent to extend protection to remote and mobile users.

Content Security
Advanced content security technologies enable the detection and prevention of known and unknown threats and file-based attack tactics in real-time. With capabilities like CPRL (Compact Pattern Recognition Language), AV, inline Sandbox, and lateral movement protection make it a complete solution to address ransomware, malware, and credential-based attacks.

Device Security
Advanced security technologies are optimized to monitor and protect IT, IIoT, and OT (Operational Technology) devices against vulnerability and device-based attack tactics. Its validated near-real-time IPS intelligence detects, and blocks known and zero-day threats, provides deep visibility and control into ICS/OT/SCADA protocols, and provides automated discovery, segmentation, and pattern identification-based policies.

Advanced NOC and SOC Management
Advanced NOC and SOC management tools attached to your NGFW provide simplified and faster time-to-activation.

SOC-as-a-Service
Includes tier-one hunting and automation, log location, 24×7 SOC analyst experts, managed firewall and endpoint functions, and alert triage.

Fabric Rating Security Best Practices
Includes supply chain virtual patching, up-to-date risk and vulnerability data to deliver quicker business decisions, and remediation for data breach situations.
Secure Any Edge at Any Scale

Powered by Security Processing Unit (SPU)

Traditional firewalls cannot protect against today’s content- and connection-based threats because they rely on off-the-shelf hardware and general-purpose CPUs, causing a dangerous performance gap. Fortinet’s custom SPU processors deliver the power you need—up to 520Gbps—to detect emerging threats and block malicious content while ensuring your network security solution does not become a performance bottleneck.

ASIC Advantage

Network Processor 7 NP7
Network Processors operate inline to deliver unmatched performance and scalability for critical network functions. Fortinet’s breakthrough SPU NP7 network processor 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 9 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

FortiCare Services

Fortinet is dedicated to helping our customers succeed, and every year FortiCare Services help thousands of organizations get the most from our Fortinet Security Fabric solution. Our lifecycle portfolio offers Design, Deploy, Operate, Optimize, and Evolve services. Operate services offer device-level FortiCare Elite service with enhanced SLAs to meet our customer’s operational and availability needs. In addition, our customized account-level services provide rapid incident resolution and offer proactive care to maximize the security and performance of Fortinet deployments.
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 and sophisticated 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 (Security Processing Unit) technology provides industry-leading high-performance protection

Segmentation
- Dynamic segmentation adapts to any network topology to deliver true end-to-end security—from the branch to the datacenter 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

Secure SD-WAN
- 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 work-from-any where models, SD-Branch, and cloud-first WAN use cases
- Achieve operational efficiencies at any scale through automation, deep analytics, and self-healing

HyperScale
- Purpose-built SPUs power FortiOS to consolidate networking and security and deliver ultra-scalable Security-Driven Networks
- Unparalleled ultra-high performance offers the industry’s highest number of connections and connections per second performance combined with security-enabled performance to safeguard business-critical applications
- Hardware assisted anti-DDoS prevents volumetric attacks and delivers strong security posture
Mobile Security for 4G, 5G, and IoT

- SPU-accelerated, high performance CGNAT and IPv6 migration options, including: NAT44, NAT444, NAT64/DNS64, NAT46 for 4G Gi/sGi, and 5G N6 connectivity and security
- RAN Access Security with highly scalable and highest-performing IPsec aggregation and control Security Gateway (SecGW)
- User plane security enabled by full threat protection and visibility into GTP-U inspection

Datacenter Deployment (NGFW, IPS, Segmentation)
Hardware

FortiGate 4400F Series

Interfaces
1. USB Management and Console Port
2. 2 x GE RJ45 Management Ports
3. 2 x 25 GE SFP28/10 GE SFP+ GE SFP High Availability Slots
4. 2 x 25 GE SFP28/10 GE SFP+ GE SFP AUX Slots
5. 16 x 25 GE SFP28/10 GE SFP Slots
6. 12 x 100 GE QSFP28/40 GE QSFP+ Slots

Hardware Features

Hyperscale Firewall License
This perpetual license empowers organizations by unlocking further performance boosts. The Hyperscale Firewall License enables the hardware acceleration of CGNAT features by utilizing Fortinet’s patented SPU NP7. These features include hardware session setup, firewall session logging, and NAT.

Trusted Platform Module (TPM)
The FortiGate 4400F 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.

100 GE Connectivity for Network
High-speed connectivity is essential for network security segmentation at the core of data networks. The FortiGate 4400F series provides multiple 100 GE QSFP28 slots, simplifying network designs without relying on additional devices to bridge desired connectivity.
Specifications

<table>
<thead>
<tr>
<th>FORTIGATE</th>
<th>4400F/-DC</th>
<th>4401f/-DC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interfaces and Modules</td>
<td>Hardware Accelerated 100 GE QSFP28 / 40 GE QSFP+ Slots</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Hardware Accelerated 25 GE SFP28 / 10 GE SFP+ / GE SFP Slots</td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>Hardware Accelerated 25 GE SFP28 / 10 GE SFP+ / GE SFP HA Slots</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Hardware Accelerated 25 GE SFP28 / 10 GE SFP+ / GE SFP AUX Slots</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>GE RJ45 Management Ports</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>USB Port (3.0)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Console Port</td>
<td>1</td>
</tr>
<tr>
<td>Onboard Storage</td>
<td>—</td>
<td>2 x 2 TB SSD</td>
</tr>
<tr>
<td>Included Transceivers</td>
<td>2x SFP+ (SR 10 GE)</td>
<td></td>
</tr>
</tbody>
</table>

System Performance — Enterprise Traffic Mix

- **IPS Throughput**: 94 Gbps
- **NGFW Throughput**: 82 Gbps
- **Threat Protection Throughput**: 75 Gbps

System Performance and Capacity

- **IPv4 Firewall Throughput** (1518 / 512 / 64 byte, UDP): 1.15 / 1.14 / 0.50 Tbps
- **IPv6 Firewall Throughput** (1518 / 512 / 86 byte, UDP): 1.15 / 1.14 / 0.50 Tbps
- **Firewall Latency** (64 byte, UDP): 2.98 μs
- **Firewall Throughput** (Packet per Second): 750 Mpps
- **Concurrent Sessions (TCP)**: 210 Million / 700 Million *
- **New Sessions/Second (TCP)**: 1 Million / 10 Million *
- **Firewall Policies**: 400 000
- **IPsec VPN Throughput** (512 byte): 310 Gbps
- **Gateway-to-Gateway IPsec VPN Tunnels**: 40 000
- **Client-to-Gateway IPsec VPN Tunnels**: 200 000
- **SSL-VPN Throughput**: 16 Gbps
- **Concurrent SSL-VPN Users** (Recommended Maximum, Tunnel Mode): 30 000
- **SSL Inspection Throughput** (IPS, avg. HTTPS): 86 Gbps
- **SSL Inspection CPS** (IPS, avg. HTTPS): 70 000
- **SSL Inspection Concurrent Session** (IPS, avg. HTTPS): 9 Million
- **Application Control Throughput** (HTTP 64K): 140 Gbps
- **CAPWAP Throughput** (HTTP 64K): 63 Gbps
- **Virtual Domains (Default / Maximum)**: 10 / 500
- **Maximum Number of FortiSwitches Supported**: 300
- **Maximum Number of FortiAPs (Total / Tunnel)**: 8192 / 4096
- **Maximum Number of FortiTokens**: 20 000
- **Maximum Number of Registered FortiClients**: 20 000
- **High Availability Configurations**: Active-Active, Active-Passive, Clustering

Dimensions and Power

- **Height x Width x Length (inches)**: 6.97 x 17.20 x 26.17
- **Height x Width x Length (mm)**: 177 x 437 x 665
- **Weight**: 81.8 lbs (371 kg) / 83.1 lbs (377 kg)
- **Form Factor** (supports EIA/non-EIA standards): Rack Mount, 4 RU
- **AC Power Supply**: 100–240V AC, 50/60 Hz
- **Power Consumption** (Average / Maximum): 1533W / 1875W / 1539W / 1881W
- **AC Current** (Maximum): 20A@100V, 9A@240V
- **DC Power Supply**: -48V to -60V DC
- **DC Current** (Average / Maximum): 32A / 100 Apk
- **Heat Dissipation**: 6387.77 BTU/h / 6418.24 BTU/h
- **Redundant Power Supplies**: Yes, Hot Swappable, 2+2 (AC), 1+1 (DC)
- **Power Supply Efficiency Rating**: 80Plus Compliant
- **Fan Tray**: Hot Swappable

Operating Environment and Certifications

- **Operating Temperature**: 32°–104°F (0°–40°C)
- **Storage Temperature**: -31°–158°F (-35°–70°C)
- **Humidity**: 20%–90% non-condensing
- **Noise Level**: 68.9 dBA
- **Forced Airflow**: Front to Back
- **Operating Altitude**: Up to 7400 ft (2250 m)**

Compliance

- **FCC Part 15 Class A, RCM, VCCI, CE, UL/cUL, CB**

For USGv6/IPv6

- **Hyperscale Firewall License**: Requires

**Operating at maximum temperature derates 1.5°C per 1000 ft (305 m)**

Note: All performance values are "up to" and vary depending on system configuration.

1 IPsec VPN performance test uses AES256-SHA256.
2 IPS (Enterprise Mix), Application Control, NGFW and Threat Protection are measured with Logging enabled.
3 SSL Inspection performance values use an average of HTTPS sessions of different cipher suites.
4 NGFW performance is measured with Firewall, IPS and Application Control enabled.
5 Threat Protection performance is measured with Firewall, IPS, Application Control and Malware Protection enabled.
## FortiGate 4400F Series

### Ordering Information

<table>
<thead>
<tr>
<th>Product</th>
<th>SKU</th>
<th>Description</th>
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<tbody>
<tr>
<td>FortiGate 4400F</td>
<td>FG-4400F</td>
<td>12x 100GE/40GE QSFP28 slots and 18x 25GE/10GE SFP28 slots, 2 x GE RJ45 Management Ports, SPU NP7 and CP9 hardware accelerated, and AC power supplies.</td>
</tr>
<tr>
<td>FortiGate 4400F-DC</td>
<td>FG-4400F-DC</td>
<td>12x 100GE/40GE QSFP28 slots and 18x 25GE/10GE SFP28 slots, 2 x GE RJ45 Management Ports, SPU NP7 and CP9 hardware accelerated, and DC power supplies.</td>
</tr>
<tr>
<td>FortiGate 4401F</td>
<td>FG-4401F</td>
<td>12x 100GE/40GE QSFP28 slots and 18x 25GE/10GE SFP28 slots, 2 x GE RJ45 Management Ports, SPU NP7 and CP9 hardware accelerated, 2x 2TB storage and AC power supplies.</td>
</tr>
<tr>
<td>FortiGate 4401F-DC</td>
<td>FG-4401F-DC</td>
<td>12x 100GE/40GE QSFP28 slots and 18x 25GE/10GE SFP28 slots, 2 x GE RJ45 Management Ports, SPU NP7 and CP9 hardware accelerated, 2x 2TB storage and DC power supplies.</td>
</tr>
<tr>
<td>Hyperscale Firewall License</td>
<td>LIC-FGT-HYPSC</td>
<td>Hyperscale Firewall License for FortiGate FG-4200F/FG4201F Series for hardware session setup acceleration and logging.</td>
</tr>
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</table>

### Optional Accessories/Spares

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<tr>
<td>AC Power Supply</td>
<td>SP-FG4000F-PS</td>
<td>2000W AC power supply for 4000F and 6000F series, does not include SP-FGPCORC15-XX power cord.</td>
</tr>
<tr>
<td>DC Power Supply</td>
<td>SP-FG4000F-DC-PS</td>
<td>6 ft power cord, 15A125V XXX, PSE BLACK ROHS-6, for FG-3800E, 4000F, 6000F and 7000E/F Series.</td>
</tr>
<tr>
<td>1 GE SFP LX Transceiver Module</td>
<td>FN-TRAN-LX</td>
<td>1 GE SFP LX transceiver module for all systems with SFP and SFP/SFP+ slots.</td>
</tr>
<tr>
<td>1 GE SFP RJ45 Transceiver Module</td>
<td>FN-TRAN-GC</td>
<td>1 GE SFP RJ45 transceiver module for all systems with SFP and SFP/SFP+ slots.</td>
</tr>
<tr>
<td>1 GE SFP SX Transceiver Module</td>
<td>FN-TRAN-SX</td>
<td>1 GE SFP SX transceiver module for all systems with SFP and SFP/SFP+ slots.</td>
</tr>
<tr>
<td>10 GE SFP+ RJ45 Transceiver Module</td>
<td>FN-TRAN-SFP+GC</td>
<td>10 GE SFP+ RJ45 transceiver module for systems with SFP+ slots.</td>
</tr>
<tr>
<td>10 GE SFP+ Transceiver Module, Short Range</td>
<td>FN-TRAN-SFP+SR</td>
<td>10 GE SFP+ transceiver module, short range for all systems with SFP+ and SFP/SFP+ slots.</td>
</tr>
<tr>
<td>10 GE SFP+ Transceiver Module, Long Range</td>
<td>FN-TRAN-SFP+LR</td>
<td>10 GE SFP+ transceiver module, long range for all systems with SFP+ and SFP/SFP+ slots.</td>
</tr>
<tr>
<td>10 GE SFP+ Active Direct Attach Cable, 10m / 32.8 ft</td>
<td>SP-CABLE-ADASFP+</td>
<td>10 GE SFP+ active direct attach cable, 10m / 32.8 ft for all systems with SFP+ and SFP/SFP+ slots.</td>
</tr>
<tr>
<td>40 GE QSFP+ Transceiver Module, Short Range</td>
<td>FN-TRAN-QSFP+SR</td>
<td>40 GE QSFP+ transceiver module, short range for all systems with QSFP+ slots.</td>
</tr>
<tr>
<td>40 GE QSFP+ Transceiver Module, Short Range BiDi</td>
<td>FN-TRAN-QSFP+SR-BIDI</td>
<td>40 GE QSFP+ transceiver module, short range BiDi for all systems with QSFP+ slots.</td>
</tr>
<tr>
<td>100 GE QSFP28 Transceivers, Short Range</td>
<td>FN-TRAN-QSFP28-SR</td>
<td>100 GE QSFP28 transceivers, 4 channel parallel fiber, short range for all systems with QSFP28 slots.</td>
</tr>
<tr>
<td>100 GE QSFP28 Transceivers, Long Range</td>
<td>FN-TRAN-QSFP28-LR</td>
<td>100 GE QSFP28 transceivers, 4 channel parallel fiber, long range for all systems with QSFP28 slots.</td>
</tr>
<tr>
<td>100 GE QSFP28 Transceivers, CWDM4</td>
<td>FN-TRAN-QSFP28-CWDM4</td>
<td>100 GE QSFP28 transceivers, LC connectors, 2KM for all systems with QSFP28 slots.</td>
</tr>
<tr>
<td>100 GE QSFP28 BiDi Transceiver Module</td>
<td>FN-TRAN-QSFP28-BIDI</td>
<td>100 GE QSFP28 BiDi transceiver module, 100m MMF LC connector, for systems with QSFP28 slots.</td>
</tr>
</tbody>
</table>
Subscriptions

FortiGuard Labs delivers a number of security intelligence services to augment the FortiGate firewall platform. You can easily optimize the protection capabilities of your FortiGate with one of these FortiGuard Bundles.

FortiCare Elite

FortiCare Elite services offer enhanced service-level agreements (SLAs) and accelerated issue resolution. This advanced support offering provides access to a dedicated support team. Single-touch ticket handling by the expert technical team streamlines resolution. This option also provides Extended End-of-Engineering-Support (EoE’s) of 18 months for added flexibility and access to the new FortiCare Elite Portal. This intuitive portal provides a single unified view of device and security health.

Fortinet CSR 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.

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