

DATA SHEET

FortiGate® 5000 Series

Scalable Data Center and Carrier Grade Security Systems

Next Generation Firewall Segmentation IPS Mobile Security

The FortiGate 5000 series delivers high-performance threat protection and SSL inspection for large enterprises and service providers, with the flexibility to be deployed at the enterprise/cloud edge, in the data center core or internal segments. The multiple high-speed interfaces, high port density, superior security efficacy, and high throughput of the 5000 series keep your network connected and secure.





Security

- Identifies thousands of applications inside network traffic for deep inspection and granular policy enforcement
- Protects against malware, exploits, and malicious websites in both encrypted and non-encrypted traffic
- Prevents and detects against known and unknown attacks using continuous threat intelligence from Al-powered
 FortiGuard Labs security services

Performance

- Delivers industry's best threat protection performance and ultra-low latency using purpose-built security processor (SPU) technology
- Provides industry-leading performance and protection for SSL encrypted traffic

Certification

- Independently tested and validated best security effectiveness and performance
- Received unparalleled third-party certifications from NSS Labs

Networking

- Delivers advanced networking capabilities that seamlessly integrate with advanced layer 7 security and virtual domains (VDOMs) to offer extensive deployment flexibility, multi-tenancy, and effective utilization of resources
- Delivers high-density, flexible combination of various highspeed interfaces to enable best TCO for customers for data center and WAN deployments

Management

- Includes a management console that is effective, simple to use, and provides comprehensive network automation & visibility.
- Provides Zero Touch Integration with Security Fabric's Single Pane of Glass Management
- Predefined compliance checklist analyzes the deployment and highlights the best practices to improve overall security posture

Security Fabric

 Enables Fortinet and Fabric-ready partners' products to provide broader visibility, integrated end-to-end detection, threat intelligence sharing, and automated remediation

| Model | FG-5001E* | Fully-Populated FG-5144C** |
|---------------------------|---|---|
| Firewall | 80 Gbps | 1.12 Tbps |
| Concurrent Sessions (TCP) | 40 Million | 560 Million |
| New Sessions/Second (TCP) | 640,000 | 8,960,000 |
| IPS | 18 Gbps | 252 Gbps |
| NGFW | 15 Gbps | 210 Gbps |
| Threat Protection | 13.5 Gbps | 189 Gbps |
| Network Interfaces | Multiple 40 GE QSFP+ and 10 GE SFP+ slots | Multiple 40 GE QSFP+ and 10 GE SFP+ slots |

Deployment



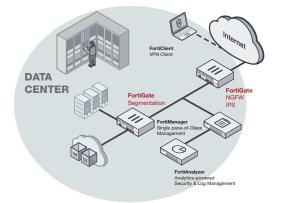
Next Generation Firewall (NGFW)

- Reduce the complexity and maximize your ROI by integrating threat protection security capabilities into a single highperformance network security appliance, powered by Fortinet's Security Processing Unit (SPU)
- Full visibility into users, devices, applications across the entire attack surface and consistent security policy enforcement irrespective of asset location
- Protect against network exploitable vulnerabilities with Industryvalidated IPS security effectiveness, low latency and optimized network performance
- Automatically block threats on decrypted traffic using the Industry's highest SSL inspection performance, including the latest TLS 1.3 standard with mandated ciphers
- Proactively block newly discovered sophisticated attacks in real-time with Al-powered FortiGuard Labs and advanced threat protection services included in the Fortinet Security Fabric



Segmentation

- Segmentation that adapts to any network topology, delivering end-to-end security from the branch level to data centers and extending to multiple clouds
- Reduce security risks by improving network visibility from the components of the Fortinet Security Fabric, which adapt access permissions to current levels of trust and enforce access control effectively and efficiently
- Delivers defense in depth security powered by high-performance
 L7 inspection and remediation by Fortinet's SPU, while delivering
 third party validated TCO of per protected Mbps
- Protects critical business applications and helps implement any compliance requirements without network redesigns



FortiGate 5000 Series deployment in data center (IPS/NGFW, Intent-based Segmentation)



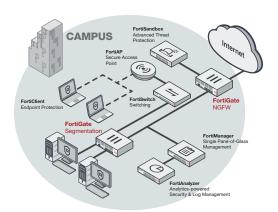
IPS

- Purpose-built security processors delivering industry validated
 IPS performance with high throughput and low latency
- Deploy virtual patches at the network level to protect against network exploitable vulnerabilities and optimize network protection time
- Deep packet inspection at wire speeds offers unparalleled threat visibility into network traffic including traffic encrypted with the latest TLS 1.3
- Proactively block newly discovered sophisticated attacks in realtime with advanced threat protection provided by the intelligence services of the Fortinet Security Fabric



Mobile Security for 4G, 5G, and IOT

- SPU accelerated, high performance CGNAT and IPv4 and IPv6 traffic, for 4G SGi LAN and 5G N6 security
- RAN Access Security with highly scalable and best performing IPsec aggregation and control security gateway (SecGW)
- User plane security enabled by full Threat Protection and visibility into GTP-U inspection
- 4G and 5G security for user and data plane traffic SCTP, GTP-U/C and SIP that provides protection against attacks
- 4G and 5G cores IoT signaling storm protection
- High-speed interfaces to enable deployment flexibility



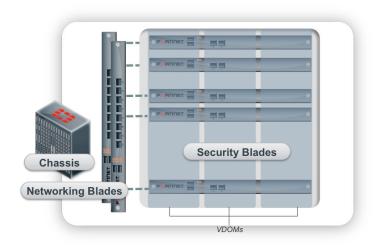
FortiGate 5000 Series deployment in large campus networks (NGFW, Intent-based Segmentation)



Architecture

Flexible and Scalable

- Chassis and blades systems that can be configured for various resiliency and network requirements
- Security blades can be added as demand grows
- Ease of maintenance and minimum disruption with hot swappable components



Chassis

The chassis enables the flexible system to scale effortlessly by allowing blades to be hot-swapped according to desired requirements. The system can also be configured for various resilience designs within the chassis as well as between chassis. The rack-mount ATCA chassis provides centralized and redundant power supplies to its blades and may be powered by either DC or AC with an additional power interface. It facilitates backplane communications between the blades which may be used for HA heartbeat and other control and data communications.

The FortiGate 5144C and FortiGate 5060 may house shelf managers that control chassis power allocation, monitor chassis operating parameters, monitor and control chassis cooling, and can signal alerts via the alarm module if the chassis encounters problems.

Security Blades

High performance, Security Processing Unit (SPU) powered security blades run on FortiOS or FortiCarrier which apply access policies and security profiles on the traffic they receive from the networking blades via backplane or front panel interfaces. These blades may operate in NAT/route and/or transparent mode. They also support VDOMs (virtual domains) within the cluster.

Networking Blades

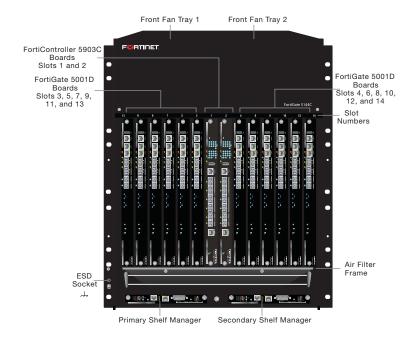
Up to two networking blades may be installed on a FortiGate 5144C and FortiGate 5060 in designated slots. These blades connect the system to the network while connected to the multiple security blades via the chassis backplane. The networking blade clusters the security blades with traffic distribution.

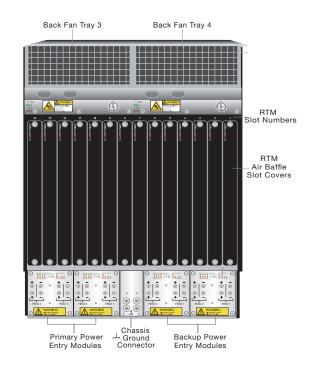
Networking blades can assign security blades into service groups which are isolated clusters coexisting in a single chassis. Two networking blades may either operate as active-passive HA or separately with its clusters.

Chassis

FortiGate 5144C

Next Generation 14U 19-inch rack mount ATCA chassis with 40 Gbps Backplane and capable of Dual-Dual-Star topology. It can install up to 14 FortiGate 5000 series blades.





| | FG-5144C |
|--|-----------------------|
| Hardware Specifications | |
| Available Slots | 14 |
| High Availability Backplane Fabric | Built-in |
| 40 Gbps Backplane Support | Yes |
| Shelf Manager (Default / Maximum) | 1/2 |
| Dual Networking Blade Support | Yes |
| Dimensions | |
| Height x Width x Length (inches) | 24.44 x 19.06 x 21.63 |
| Height x Width x Length (cm) | 62.1 x 48.4 x 55.0 |
| Weight | 108 lbs (50 kg) |
| Form Factor (supports EIA/non-EIA standards) | 14 RU |
| Maximum Capacity** | |

| | FG-5144C |
|--|---|
| Firewall Throughput | 1.12 Tbps |
| Power and Environment | |
| Power Required | DC/AC ¹ |
| Chassis Only Power Consumption (Maximum) *** | 960 W |
| Heat Dissipation (Maximum) *** | 3,276 BTU/h |
| Operating Temperature | 32-104°F (0-40°C) |
| Storage Temperature | -13–158°F (-35–70°C) |
| Humidity | 5–90% non-condensing |
| Compliance | |
| Certifications | FCC Part 15 Class A, RCM, VCCI, CE, BSMI, UL/cUL |
| NEBS Certified | Yes |
| | |

¹ Optional FortiGate 5053B Power Supply Shelf used to provide AC power to the FortiGate

AdvancedTCA™-compliant Chassis

- Based on industry-conforming standards assuring carriergrade performance, reliability, 99.999% availability and serviceability
- Redundant fans, power modules, self managers and alarm modules options
- Highly scalable with minimum service disruptions as hotswapped blades may be added to increase capacity with ease
- Comprehensive management and monitoring facilities via shelf managers and alarm modules

^{**} Based on fully-populated FortiGate 5001D

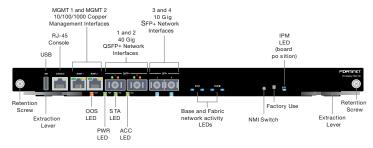
^{***} Please refer to respective Chassis Guide for computation of total power requirement.

Security Blades

FortiGate 5001E/5001E1

Latest purpose-built FortiGate security blade with carrier-class capacity and protection.





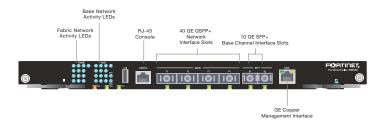
| | FG-5001E/5001E1 |
|--|---|
| Interfaces and Storage | |
| 40 GE QSFP+ Ports | 2 |
| 10 GE SFP+ Ports | 2 |
| GE RJ45 Ports | 2 |
| RJ45 Console Port | 1 |
| Included Transceivers | 2x 10 GE SFP+ SR |
| Local Storage | 1x 480 GB SSD (5001E1) |
| System Performance | |
| Firewall Throughput (1518 / 512 / 64 byte UDP packets) | 80 / 80 / 50 Gbps |
| Firewall Latency (64 byte UDP packets) | 3 µs |
| Firewall Throughput (Packets Per Second) | 75 Mpps |
| Concurrent Sessions (TCP) | 40 Million |
| New Sessions/Second (TCP) | 640,000 |
| Maximum Firewall Policies | 200,000 |
| IPsec VPN Throughput (512 byte packets) | 45 Gbps |
| Gateway-to-Gateway IPsec VPN Tunnels | 40,000 |
| Client-to-Gateway IPsec VPN Tunnels | 64,000 |
| SSL-VPN Throughput | 9 Gbps |
| Concurrent SSL-VPN Users (Recommended Maximum) | 25,000 |
| IPS Throughput (HTTP / Enterprise Mix) ¹ | 25 / 18 Gbps |
| SSL Inspection Throughput ² | 15 Gbps |
| SSL Inspection CPS (IPS, avg. HTTPS) ³ | 8,805 |
| SSL Inspection Concurrent Session (IPS, avg. HTTPS) ³ | 3.97 Million |
| Application Control Throughput ³ | 36 Gbps |
| NGFW Throughput ⁴ | 15 Gbps |
| Threat Protection Throughput ⁵ | 13.5 Gbps |
| CAPWAP Throughput | 15 Gbps |
| Virtual Domains (Default / Maximum) | 10 / 500 |
| Maximum Number of FortiTokens | 20,000 |
| Maximum Number of Registered FortiClients | 20,000 |
| Maximum Number of FortiAPs (Total / Tunnel) | 4,096 / 1,024 |
| Power and Environment | |
| Power Consumption (Average / Maximum) | 250 / 278 W |
| Heat Dissipation (Average) | 948.6 BTU/h |
| Operating Temperature | 23–131°F (-5–55°C) |
| Storage Temperature | -40–158°F (-40–70°C) |
| Humidity | 10-90% non-condensing |
| Compliance | |
| Certifications | FCC Part 15 Class A, RCM, VCCI, CE, UL/cUL, CB, ICSA Labs: Firewall, IPsec, IPS, Antivirus, SSL-VPN |
| NEBS Certified | - |

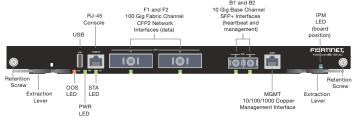
Note: All performance values are "up to" and vary depending on system configuration. IPsec VPN performance is based on 512 byte UDP packets using AES-256+SHA1. 1. IPS performance is measured using 1 Mbyte HTTP and Enterprise Traffic Mix. 2. SSL Inspection is measured with IPS enabled and HTTP traffic, 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.

Networking Blades

FortiController 5903C/5913C

High Performance networking blade that provides 10/40-gigabit fabric and 1-gigabit base backplane channel layer-2 switching in a dual star architecture.





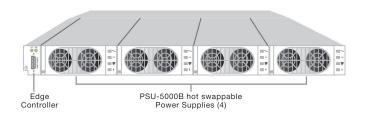
| | FCTL-5903C | FCTL-5913C |
|--------------------------------|------------------|------------------|
| Interfaces | | |
| Fabric Channel Interfaces | 4x 40 GE QSFP+ | 2x 100 GE CFP2 |
| Base Channel Interfaces | 2x 10 GE SFP+ | 2x 10 GE SFP+ |
| Management Interfaces | 1x GE RJ45 | 1x GE RJ45 |
| Included Transceivers | 2x 10 GE SFP+ SR | 2x 10 GE SFP+ SR |
| 40 GE Backplane Fabric Support | Yes | Yes |
| 10 GE Backplane Fabric Support | Yes | Yes |
| GE Backplane Fabric Support | _ | _ |
| System Performance | | |
| Maximum Traffic Throughput | 120 Gbps | 200 Gbps |
| Maximum Concurrent Sessions | 135 Million | 135 Million |
| New Sessions/Second (TCP) | 3.2 Million | 3.6 Million |

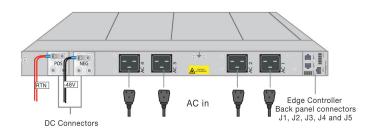
| | FCTL-5903C | FCTL-5913C | |
|---------------------------------------|---|----------------------|--|
| Power and Environment | | | |
| Power Consumption (Average / Maximum) | 250 / 400 W | 280 / 400 W | |
| Heat Dissipation | 1360 BTU/h | 955 BTU/h | |
| Operating Temperature | 32-104°F (0-40°C) | 32-104°F (0-40°C) | |
| Storage Temperature | -13–158°F (-35–70°C) | -13–158°F (-35–70°C) | |
| Humidity | 20-90% non-condensing | 5-90% non-condensing | |
| Compliance | | | |
| Certifications | FCC Part 15 Class A, C-Tick, VCCI, CE, UL/cUL, CB | | |
| NEBS Certified | Yes | Yes | |

AC Power Supplies

FortiGate 5053B and Power Supply Unit 5000B

The FortiGate 5053B is a 1U 19-inch rack mount power supply shelf with PSU-5000B hot swappable power supplies to convert AC power to DC power and to supply power to a FortiGate 5000 series chassis.





| | NON-REDUN | NON-REDUNDANT | | | REDUNDANT | REDUNDANT | | |
|--|-----------|---------------|---------|----------|-----------|-----------|---------|--|
| Number of PSUs | 1 | 2 | 3 | 4 | 1+1 | 2+1 | 3+1 | |
| 5053B with PSU-5000B (185–307V AC High Line Input) | 2,725 W | 5,450 W | 8,175 W | 10,900 W | 2,725 W | 5,450 W | 8,175 W | |
| 5053B with PSU-5000B (100–184V AC Low Line Input, North America, Mexico, Japan, etc.) | 1,200 W | 2,400 W | 3,600 W | 4,800 W | 1,200 W | 2,400 W | 3,600 W | |



Additional Available Components

Chassis

| | FG-5060 |
|------------------------------------|----------------------|
| Hardware Specifications | |
| Available Slots | 6 |
| High Availability Backplane Fabric | Built-in |
| 40 Gbps Backplane Support | - |
| Shelf Manager (Default / Maximum) | 1/2 |
| Dual Networking Blade Support | Yes |
| Dimensions | |
| Height x Width x Length (inches) | 8.86 x 17.64 x 18.82 |
| Height x Width x Length (cm) | 22 x 44.8 x 47.8 |
| Weight | 38 (17.3 kg) |
| Maximum Capacity** | |
| Firewall Throughput | 480 Gbps |

| | FG-5060 |
|---|--|
| Power and Environment | |
| Power Required | DC/AC1 |
| Chassis-Only Power Consumption (Maximum) *** | 350 W |
| Heat Dissipation (Maximum) *** | 1194 BTU/h |
| Operating Temperature | 41-104°F (5-40°C) |
| Storage Temperature | 23-131°F (-5-55°C) |
| Humidity | 5–85% non-condensing |
| Compliance | |
| Certifications | FCC Part 15 Class A, RCM, VCCI, CE, BSMI, UL/cUL |
| NEBS Certified | - |
| | |

 $^{^{\}rm 1}$ Optional FortiGate 5053B Power Supply Shelf used to provide AC power to the FortiGate



^{**} Based on fully populated FortiGate 5001D

^{***} Please refer to respective Chassis Guide for computation of total power requirement.

Fortinet Security Fabric

Security Fabric

The Security Fabric is the cybersecurity platform that enables digital innovations. It delivers broad visibility of the entire attack surface to better manage risk. Its unified and integrated solution reduces the complexity of supporting multiple-point products, while automated workflows increase operational speeds and reduce response times across the Fortinet deployment ecosystem. The Fortinet Security Fabric overs the following key areas under a single management center:

- Security-Driven Networking that secures, accelerates, and unifies the network and user experience
- Zero Trust Network Access that identifies and secures users and devices in real-time, on and off of the network
- Dynamic Cloud Security that protects and controls cloud infrastructures and applications
- Al-Driven Security Operations that automatically prevents, detects, isolates, and responds to cyber threats

Secure WLAN/LAN Endpoint Security Operations Security Operations

FortiOS

FortiGates are the foundation of the Fortinet Security Fabric—the core is FortiOS. All security and networking capabilities across the entire FortiGate platform are controlled with one intuitive operating system. FortiOS reduces complexity, costs, and response times by truly consolidating next-generation security products and services into one platform.

- A truly consolidated platform with a single OS and pane-of-glass for across the entire digital attack surface.
- Industry-leading protection: NSS Labs Recommended, VB100, AV Comparatives, and ICSA validated security and performance.
- Leverage the latest technologies such as deception-based security.

- Control thousands of applications, block the latest exploits, and filter web traffic based on millions of real-time URL ratings in addition to true TLS 1.3 support.
- Automatically prevent, detect, and mitigate advanced attacks within minutes with an integrated Al-driven security and advanced threat protection.
- Improve and unify the user experience with innovative SD-WAN capabilities with the ability to detect, contain, and isolate threats with automated segmentation.
- Utilize SPU hardware acceleration to boost network security performance.

Services



FortiGuard[™] Security Services

FortiGuard Labs offer 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 and other network and security vendors, as well as law enforcement agencies.



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.



For more information, please refer to forti.net/fortiguard and forti.net/forticare



Order Information

| PRODUCT | SKU | DESCRIPTION |
|---|-------------------|---|
| Chassis | | |
| FortiGate 5144C Chassis | FG-5144C-DC | 14U 14-slot chassis with 40G Dual Dual Star fabric backplane, 4 PEMs, 4 fan units, 2 shelf FRU data modules, 1 shelf manager, front and RTM air baffles, and 4 pairs DC cables for connecting to FG-5053B power shelves |
| FortiGate 5144C-DC Chassis | FG-5144C-DC-NEBS | 14U 14-slot chassis with 40G Dual Dual Star fabric backplane, 4 PEMs, 4 fan units, 2 shelf FRU data modules, 1 shelf manager, front and RTM air baffles, and 4 pairs DC cables for connecting to FG-5053B power shelves, NEBS certified |
| FortiGate 5144C Shelf Manager | FG-5144C-SM | 5144C shelf manager with ShMM-700R mezzanine card and radial IPMB bus |
| FortiGate 5144C Fan Tray | FG-5144C-FAN-F | FG-5144C fan tray front |
| FortiGate 5144C Fan Tray | FG-5144C-FAN-R | FG-5144C fan tray rear |
| FortiGate 5144C Shelf FRU Data Module | FG-5144C-SFRU | FG-5144C shelf FRU data module |
| FortiGate 5144C Power Entry Module | FG-5144C-PEM | FG-5144C PEM, power entry module |
| FortiGate 5144C Air Filter | FG-5144C-AF | FG-5144C air filter |
| FortiGate 5144C Blank Panel | FG-5144C-ABF | 5000 front slot blank panel with air baffle (aluminum/plastic) |
| FortiGate 5144C Blank Panel | FG-5144C-ABR | 5000 RTM slot blank panel with air baffle (aluminum/plastic) |
| FortiGate 5060 Chassis | FG-5060-DC | 5U 6-slot chassis with Dual Star fabric backplane, 2 PEMs, 2 fan units, 2 shelf FRU data modules, 1 shelf manager, front and RTM air baffles, and 2 pairs DC cables for connecting to FG-5053B power shelves |
| FortiGate 5060 Fan Tray | FG-5060FA | Fan tray for FG-5060 chassis |
| FortiGate 5060 Shelf Manager | FG-5060SM | Shelf manager for FG-5060 chassis |
| FortiGate 5060 Shelf Alarm Panel | FG-5060SAP | Shelf alarm panel for FG-5060 chassis |
| FortiGate 5053B Power Converter Tray | FG-5053B | AC power converter shelf for high capacity 5000 chassis, supports up to 4 PSU-5000B power supply units, unpopulated |
| FortiGate 5000 Series Power Supply Unit | PSU-5000B | Power supply unit for FG-5000 series, AC power supply unit, 1,200 Watts maximum, requires FortiGate 5053B shelf |
| Security Blades | | |
| FortiGate 5001E | FG-5001E | Security blade with 2x 40 GE QSFP+ ports, 2x 10 GE SFP+ ports, 2x GE RJ45 management ports, FortiASIC NP6 and CP9 hardware accelerate |
| FortiGate 5001E1 | FG-5001E1 | Security blade with 2x 40 GE QSFP+ ports, 2x 10 GE SFP+ ports, 2x GE RJ45 management ports, FortiASiC NP6 and CP9 hardware accelerate 480 GB SSD onboard storage |
| Networking Blades | | |
| FortiController 5903C | FCTRL-5903C | Networking blade with 4x 40 GE SFP+ fabric slots, 2x 10 GE SFP+ base slots, 1x GE RJ45 management port |
| FortiController 5913C | FCTRL-5913C | Networking blade with 2x 100 GE CFP2 fabric slots, 2x 10 GE SFP+ base slots, includes 2 SR SFP+ |
| Optional Accessories | | |
| 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+ Active Direct Attach Cable | SP-CABLE-ADASFP+ | 10 GE SFP+ active direct attach cable, 10m / 32.8 ft for all systems with SFP+ and SFP/SFP+ slots |
| 40 GE QSFP+ Transceiver Module, Short Range | FN-TRAN-QSFP+SR | 40 GE QSFP+ transceiver module, short range for all systems with QSFP+ slots. |
| 40 GE QSFP+ Transceiver Module, Long Range | FN-TRAN-QSFP+LR | 40 GE QSFP+ transceiver module, long range for all systems with QSFP+ slots. |
| 100 GE CFP2 Transceivers, Long Range | FG-TRAN-CFP2-LR4 | 100 GE CFP2 transceivers, long range, over single mode fiber, for all systems with CFP2 slots |
| 100 GE CFP2 Transceivers, Short Range | FG-TRAN-CFP2-SR10 | 100 GE CFP2 transceivers, 10 channel parallel fiber, short range for all systems with CFP2 slots |

More Features with FortiCarrier Software License

- SIP/IMS signaling firewall protects internal infrastructure and service against malicious messages and overload while providing NAT services and redundancy, providing VoIP edge scalability and a platform for managed security services
- MMS security content scanning and protection (keyword blocking, antivirus, file-type blocking, antispam detection) with per-user services provide enhanced end-user security for increased uptime and higher customer satisfaction
- GTP firewall delivers protocol anomaly detection and prevention with multiple filter options for end-to-end security

Bundles



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.

| Bundles | 360 Protection | Enterprise Protection | Unified Threat Protection | Threat Protection |
|--|-------------------|--------------------------|------------------------------|----------------------|
| FortiCare | ASE 1 | 24x7 | 24x7 | 24x7 |
| FortiGuard App Control Service | • | • | • | • |
| FortiGuard IPS Service | • | • | • | • |
| FortiGuard Advanced Malware Protection (AMP) — Antivirus, Mobile Malware, Botnet, CDR, Virus Outbreak Protection and FortiSandbox Cloud Service | • | • | • | • |
| FortiGuard Web Filtering Service | • | • | • | |
| FortiGuard Antispam Service | • | • | • | |
| FortiGuard Security Rating Service | • | • | | |
| FortiGuard Industrial Service | • | • | | |
| FortiGuard IoT Detection Service ² | • | • | | |
| FortiConverter Service | • | • | | |
| IPAM Cloud ² | • | | | |
| SD-WAN Orchestrator Entitlement ² | • | | | |
| SD-WAN Cloud Assisted Monitoring | • | | | |
| SD-WAN Overlay Controller VPN Service | • | | | |
| FortiAnalyzer Cloud | • | | | |
| FortiManager Cloud | • | | | |

1. 24x7 plus Advanced Services Ticket Handling 2. Available when running FortiOS 6.4



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