

FortiGate® 7000E Series

FortiGate 7060E, 7040E and 7030E

Next Generation Firewall Internal Segmentation Firewall Data Center Firewall and IPS Carrier-Class Firewall







The FortiGate 7000E series delivers ultra-high performance NGFW security services for large enterprises and data center environments needing uncompromising protection from cyber threats and malware, at the edge and in the core. At speeds of up to 100 Gbps NGFW throughput combined with simplicity of management, the 7000E series is the fastest and most advanced NGFW solution in the market.

Security

- Protects against known exploits, malware and malicious URLs using continuous threat intelligence provided by FortiGuard Labs security services
- Protects against unknown attacks using dynamic analysis and provides automated mitigation to stop targeted attacks

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

Streamlined Modular Design

 Hot swappable modules and upgradeability to meet growing performance and security needs

Networking

- Delivers extensive network interface flexibility with multiple high-speed interface modules
- High performance VPN capabilities to inter-connect on-premise data centers with hosted data center resources in hybrid or public cloud
- Enables flexible deployment modes that fit into organizations' evolving network infrastructure

Management

- Centralized licensing simplifies management and maintenance
- Single Pane of Glass with Network Operations Center (NOC) view provides 360° visibility to identify issues quickly and intuitively

Security Fabric

 Enables Fortinet and Fabric-ready partners' products to collaboratively integrate and provide end-to-end security across the entire attack surface



Model	FG-7060E	FG-7040E	FG-7030E
Firewall	630 Gbps	315 Gbps	155 Gbps
IPS	120 Gbps	60 Gbps	60 Gbps
NGFW	100 Gbps	50 Gbps	50 Gbps
Threat Protection	80 Gbps	40 Gbps	35 Gbps
Network Interfaces	Multiple 10 GE SFP+/SFP, 40 GE QSFP+, 100 GE CFP2/QSFP28	Multiple 10 GE SFP+/SFP, 40 GE QSFP+, 100 GE CFP2/QSFP28	Multiple 10 GE SFP+/SFP, 40 GE/100 GE QSFP28

Refer to specification table for details

DEPLOYMENT



Next Generation Firewall (NGFW)

- Security gateway to the Internet for enterprises
- Enforce security policies with granular control and visibility of users and devices for thousands of discrete applications
- Identify and stop threats with powerful intrusion prevention beyond port and protocol that examines the actual content of your network traffic



Internal Segmentation Firewall (ISFW)

- Segmentation solution for end-to-end protection against threats while meeting compliance requirements
- High port density and accelerated traffic processing capacity to protect multiple segments without compromising performance
- Deploy transparently and rapidly into existing environments with minimal disruption

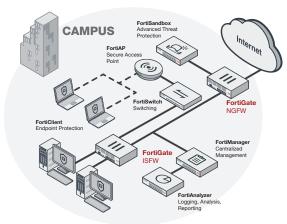


Data Center Firewall and IPS (DCFW-IPS)

- High availability, high throughput and low latency firewall for data center edge and core
- High session scale for accommodating large network and user traffic for Internet and cloud-facing data centers
- High-speed interfaces for future-proof connectivity while compact size contributes to greener data centers
- Performance optimized IPS engine to detect and deter latest known and zero day threats

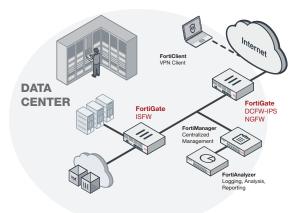


- Reliable high capacity firewall designed for service providers
- Powered by multiple SPU Network
 Processors that accelerate processing
 for both IPv4 and IPv6 traffic
- Supports Carrier License upgrade that unlocks features and protocol support for mobile networks such as GTP and SCTP
- High-speed interfaces for future-proof connectivity



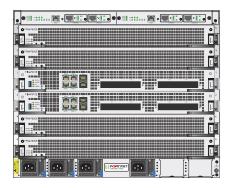
FortiGate 7000E series deployment in large campus networks (NGFW, ISFW)

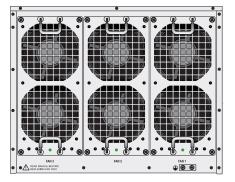
FortiGate 7000E series deployment in data center (DCFW-IPS/NGFW, ISFW)



2 www.fortinet.com

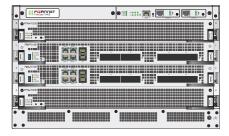
SYSTEM

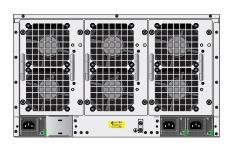




FortiGate 7060E

Next Generation 8U 19-inch 6-slot rack mount chassis supporting up to 4x Fortinet Processor Modules (FPM) and 2x Fortinet Interface Modules (FIM).





FortiGate 7040E and 7030E

The FG-7040E is a Next Generation 6U 19-inch 4-slot rack mount chassis with 2x Fortinet Processor Modules (FPM) and 2x Fortinet Interface Modules (FIM). The FG-7030E 3-slot rack mount chassis comes with 2x FPM and 1x bundled FIM.

	FORTIGATE 7060E / 7060E-DC	FORTIGATE 7040E / 7040E-DC	FORTIGATE 7030E
Hardware Specifications			
Fortinet Processor Module (FPM) Slots	4	2	2
Fortinet Interface Module (FIM) Slots	2	2	1
Shelf Manager	2	1	1
System Performance and Capacity			
Firewall Throughput (1518 / 512 / 64 byte, UDP)	630 / 630 / 340 Gbps	315 / 310 / 200 Gbps	155 / 155 / 155 Gbps
Firewall Latency (64 byte, UDP)	7 μs	7 μs	7 μs
Firewall Throughput (Packet per Second)	510 Mpps	300 Mpps	220 Mpps
Concurrent Sessions (TCP)	320 Million	160 Million	160 Million
New Sessions/Sec (TCP)	1.8 Million	950,000	900,000
irewall Policies	200,000	200,000	200,000
Psec VPN Throughput (512 byte)	100 Gbps	100 Gbps	40 Gbps
Gateway-to-Gateway IPsec VPN Tunnels	16,000	16,000	16,000
Client-to-Gateway IPsec VPN Tunnels	64,000	64,000	64,000
SSL-VPN Throughput	15 Gbps	15 Gbps	15 Gbps
Concurrent SSL-VPN Users (Recommended Maximum)	48,000	48,000	48,000
PS Throughput (HTTP / Enterprise Mix) 1	360 / 120 Gbps	140 / 60 Gbps	90 / 60 Gbps
SL Inspection Throughput ²	100 Gbps	50 Gbps	50 Gbps
opplication Control Throughput ³	160 Gbps	80 Gbps	65 Gbps
IGFW Throughput ⁴	100 Gbps	50 Gbps	50 Gbps
hreat Protection Throughput ⁵	80 Gbps	40 Gbps	35 Gbps
CAPWAP Throughput ⁶	N.A	N.A	N.A
/irtual Domains (Default / Maximum)	10 / 500	10 / 500	10 / 500
Maximum Number of FortiAPs (Total / Tunnel Mode)	N.A	N.A	N.A
Maximum Number of FortiTokens	5,000	5,000	5,000
Maximum Number of Registered FortiClients	20,000	20,000	20,000
ligh Availability Configurations	Supported	Supported	Supported
Dimensions			
Height x Width x Length (inches)	13.4 x 17.3 x 25.6	10.4 x 17.3 x 25.6	10.4 x 17.3 x 25.6
Height x Width x Length (mm)	352.7 x 440 x 650	264 x 440 x 650	264 x 440 x 650
Weight	205 lbs (93 kg)	150.3 lbs (68.2 kg)	134.9 lbs (61.3 kg)

SYSTEM

	FORTIGATE 7060E / 7060E-DC	FORTIGATE 7040E / 7040E-DC	FORTIGATE 7030E
Power and Environment			
Power Required	AC (configured with 4 PSUs in a 3+1 redundant configuration, an additional 2 PSUs can be added for additional redundancy)	AC (configured with 3 PSUs in a 2+1 redundant configuration, an additional PSU can be added for additional redundancy)	AC (configured with 3 PSUs in a 2+1 redundant configuration, an additional PSU can be added for additional redundancy)
Power Consumption (Maximum / Average) *	3277 / 2330 W	2500 / 1800 W	1940 / 1390 W
DC Power Supply	48-72V DC	48-72V DC	_
Heat Dissipation (Maximum) *	11,184 BTU/h	8,530 BTU/h	6,619 BTU/h
Operating Temperature	32-104°F (0-40°C)	32-104°F (0-40°C)	32-104°F (0-40°C)
Storage Temperature	-31-158°F (-35-70°C)	-31–158°F (-35–70°C)	-31–158°F (-35–70°C)
Humidity	20–90% non-condensing	20–90% non-condensing	20–90% non-condensing
Compliance			
Certifications	FCC, ICES, CE, RCM, VCCI, BSMI, UL/cUL, CB	FCC, ICES, CE, RCM, VCCI, BSMI, UL/cUL, CB	FCC, ICES, CE, RCM, VCCI, BSMI, UL/cUL, CB

^{*} Based on all default included components.

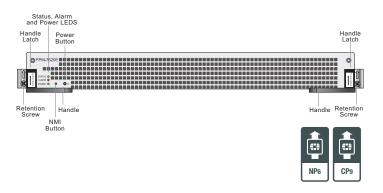
Note: All performance values are "up to" and vary depending on system configuration. IPsec VPN performance is based on 512 byte UDP packets using AES-256+SHA1. 1. IPS performance is measured using 1 Mbyte HTTP and Enterprise Traffic Mix. 2. SSL Inspection is measured with IPS enabled and HTTP traffic,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

For complete, up-to-date and detailed feature set, please refer to the Administration Handbook and FortiOS Datasheet.

MODULES

Fortinet Processor Module 7620E

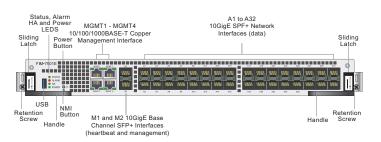
Latest purpose-built SPU CP9 accelerated processor module with superior content processing throughput and protection. Runs on FortiOS 5 — the most powerful security operating system in the world.



	FPM-7620E
Power and Environment	
Power Consumption (Average / Maximum)	320 / 410 W
Heat Dissipation (Average)	1,395 BTU/h
Operating Temperature	32-104°F (0-40°C)
Storage Temperature	-31–158°F (-35–70°C)
Humidity	20-90% non-condensing
Compliance	
Certifications	FCC, ICES, CE, RCM, VCCI, BSMI, UL/cUL, CB

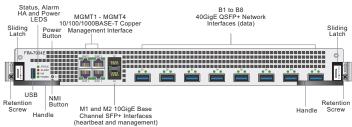
Fortinet Interface Module 7901E

High performance, SPU DP2 accelerated networking blade with 32x GE/10 GE SFP/+ slots.



Fortinet Interface Module 7904E

High performance, SPU DP2 accelerated networking blade with 8x 40 GE QSFP+ slots.



MODULES

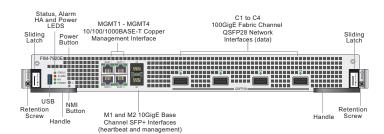
Fortinet Interface Module 7910E

High performance, SPU DP2 accelerated networking blade with 4x 100 GE CFP2 slots.

Status, Alarm HA and Power LEDS HAndle Latch Power Latch Fiber390c Wanagement Interface M1 and M2 10Gbps Base Channel SFP+ Interfaces (heartbeat and management) Retention C1 to C4 100Gbps CFP2 Network Interfaces (data) Handle Latch Retention M1 and M2 10Gbps Base Channel SFP+ Interfaces (heartbeat and management)

Fortinet Interface Module 7920E

High performance, SPU DP2 accelerated networking blade with 4x 100 GE QSFP28 slots.



	FIM-7901E	FIM-7904E	FIM-7910E	FIM-7920E
Interfaces				
Network Interfaces	32x GE/10 GE SFP/+	8x 40 GE QSFP+	4x 100 GE CFP2	4x 100 GE QSFP28
Base Channel Interfaces	2x 10 GE SFP+			
Management Interfaces	4x GE RJ45	4x GE RJ45	4x GE RJ45	4x GE RJ45
Included Transceivers	2x SFP+ SR	2x SFP+ SR	2x SFP+ SR	2x SFP+ SR
Power and Environment				
Power Consumption (Average / Maximum)	260 / 450 W	260 / 450 W	260 / 450 W	410 / 460 W
Heat Dissipation	1531 BTU/h	1531 BTU/h	1531 BTU/h	1565 BTU/h
Operating Temperature	32-104°F (0-40°C)	32-104°F (0-40°C)	32-104°F (0-40°C)	32-104°F (0-40°C)
Storage Temperature	-31–158°F (-35–70°C)	-31–158°F (-35–70°C)	-31-158°F (-35-70°C)	-31–158°F (-35–70°C)
Humidity	20–90% non-condensing	20–90% non-condensing	20–90% non-condensing	20–90% non-condensing
Compliance				
Certifications	FCC, ICES, CE, RCM, VCCI, BSMI, UL/cUL, CB	FCC, ICES, CE, RCM, VCCI, BSMI, UL/cUL, CB	FCC, ICES, CE, RCM, VCCI, BSMI, UL/cUL, CB	FCC, ICES, CE, RCM, VCCI, BSMI, UL/cUL, CB

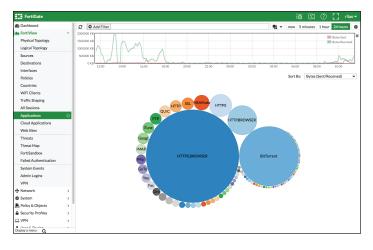
BUNDLE MATRIX

SKU	COMPONENTS					
Bundle	Chassis	Processing Module	I/O Module 1	I/O Module 2	Power Supplies	Services & Licenses
FG-7030E-SFP10G	FG-7030E (2x FPMs, 1x FIM)	2x FPM-7620E	FIM-7901E	N/A	3x PSU, 1x PSU Optional	Chassis-based pricing — Individual and
FG-7030E-QSFP28	FG-7030E (2x FPMs, 1x FIM)	2x FPM-7620E	FIM-7920E	N/A	3x PSU, 1x PSU Optional	bundled FortiGuard security services and FortiCare support subscription services: Threat Protection Bundle, UTM Bundle.
FG-7040E-8	FG-7040E (2x FPMs, 2x FIMs)	2x FPM-7620E	Select One	Select One	3x PSU, 1x PSU Optional	
FG-7060E-8 FG-7060E (4	FG-7060E (4x FPMs, 2x FIMs)	2x FPM-7620E	Select One Select One	Select One	4x PSU, 2x PSU Optional	Enterprise Bundle and FortiCare360
		2x FPM-7620E optional				Chassis-based pricing — Add on licenses such as VDOM and Endpoint Compliance

SOFTWARE

FortiOS

Control all the security and networking capabilities across the entire FortiGate platform with one intuitive operating system. Reduce operating expenses and save time with a truly consolidated next generation security platform.



- A truly consolidated platform with one OS for all security and networking services for all FortiGate platforms.
- Industry-leading protection: NSS Labs Recommended, VB100,
 AV Comparatives and ICSA validated security and performance.
- Control thousands of applications, block the latest exploits, and filter web traffic based on millions of real-time URL ratings.
- Detect, contain and block advanced attacks automatically in minutes with integrated advanced threat protection framework.
- Solve your networking needs with extensive routing, switching and WAN capabilities.
- Activate all the SPU-boosted capabilities you need on the fastest firewall platform available.



For more information, please refer to the FortiOS data sheet available at www.fortinet.com

SERVICES

FortiGuard[™] Security Services

FortiGuard Labs offers real-time intelligence on the threat landscape, delivering comprehensive security updates across the full range of Fortinet's solutions. Comprised of security threat researchers, engineers, and forensic specialists, the team collaborates with the world's leading threat monitoring organizations, other network and security vendors, as well as law enforcement agencies:

- Real-time Updates 24x7x365 Global Operations research security intelligence, distributed via Fortinet Distributed Network to all Fortinet platforms.
- Security Research FortiGuard Labs have discovered over 170 unique zero-day vulnerabilities to date, totaling millions of automated signature updates monthly.
- Validated Security Intelligence Based on FortiGuard intelligence, Fortinet's network security platform is tested and validated by the world's leading third-party testing labs and customers globally.

Enterprise Bundle

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

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

FortiCare[™] Support Services

Our FortiCare customer support team provides global technical support for all Fortinet products. With support staff in the Americas, Europe, Middle East and Asia, FortiCare offers services to meet the needs of enterprises of all sizes:

- Enhanced Support For customers who need support during local business hours only.
- Comprehensive Support For customers who need aroundthe-clock mission critical support, including advanced exchange hardware replacement.
- Advanced Services For global or regional customers who need an assigned Technical Account Manager, enhanced service level agreements, extended software support, priority escalation, on-site visits and more.
- Professional Services For customers with more complex security implementations that require architecture and design services, implementation and deployment services, operational services and more.
- FortiCare 360° For customers who want assistance with ongoing monitoring and operational risk reduction, including recurring health checks, personalized monthly audit reports and more.

6 www.fortinet.com

ORDER INFORMATION

BUNDLE ITEMS	SKU	DESCRIPTION
FortiGate 7030E-SFP10G	FG-7030E-SFP10G	6U 3-slot chassis with 2x FPM-7620E processor modules, 1x FIM-7901E module with 32x 10 GE SFP+ slots, 1x manager module, and 3x hot swappable redundant PSU.
FortiGate 7030E-QSFP28	FG-7030E-QSFP28	6U 3-slot chassis with 2x FPM-7620E processor modules, 1x FIM-7920E module with 4x 100 GE QSFP28 slots, 1x manager module, and 3x hot swappable redundant PSU.
FortiGate 7040E-8	FG-7040E-8	6U 4-slot chassis with 2x FPM-7620E processor modules, 2x FIM-79xxE-C specified at purchase, 1x manager module and 3x hot swappable redundant PSU.
FortiGate 7040E-8-DC	FG-7040E-8-DC	6U 4-slot chassis with 2x FPM-7620E processor modules, 2x FIM-79xxE-C specified at purchase, 1x manager module and 3x hot swappable redundant DC PSU.
FortiGate 7060E-8	FG-7060E-8	8U 6-slot chassis with 2x FPM-7620E processor modules, 2x FIM-79xxE-C specified at purchase, 2x manager module and 4x hot swappable redundant PSU.
FortiGate 7060E-8-DC	FG-7060E-8-DC	8U 6-slot chassis with 2x FPM-7620E processor modules, 2x FIM-79xxE-C specified at purchase, 2x manager modules and 4x hot swappable redundant DC-DC PSU.
FortiGate 7060E-DC Chassis	FG-7060E-DC-Chassis	FG-7060E chassis including 2x system management modules, 3x fan modules and 4x DC PSU.
OPTIONAL / SPARE ITEMS	SKU	DESCRIPTION
Processor Module		
FPM-7620E Module	FPM-7620E	Hot swappable processor module for 7000E series — SPU NP6 and CP9 hardware accelerated.
I/O Module		
FIM-7901E Module*	FIM-7901E	Hot swappable I/O module for 7000E series — 4x GE RJ45 management ports and 34x 10 GE SFP+ slots.
FIM-7904E Module*	FIM-7904E	Hot swappable I/O module for 7000E series — 4x GE RJ45 management ports, 2x 10 GE SFP+ slots and 8x 40 GE QSFP+.
FIM-7910E Module*	FIM-7910E	Hot swappable I/O module for 7000E series — 4x GE RJ45 management ports, 2x 10 GE SFP+ slots and 4x 100 GE CFP2 slots.
FIM-7920E Module*	FIM-7920E	Hot swappable I/O module for 7000E series — 4x GE RJ45 management ports, 2x 10 GE SFP+ slots and 4x 100 G QSFP28 slots.
Transceivers		
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.
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.
40 GE QSFP+ Transceivers, Short Range	FG-TRAN-QSFP+SR	40 GE QSFP+ transceivers, short range for all systems with QSFP+ slots.
40 GE QSFP+ Transceivers, Long Range	FG-TRAN-QSFP+LR	40 GE QSFP+ transceivers, long range for all systems with QSFP+ slots.
10 GE SFP+ Transceiver Module, Short Range	FG-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	FG-TRAN-SFP+LR	10 GE SFP+ transceiver module, long range for all systems with SFP+ and SFP/SFP+ slots.
10 GE Copper SFP+ Transceiver Module, up to 30m	FS-TRAN-SFP+GC	10 GE copper SFP+ RJ45 transceiver. For FortiSwitch only, up to 30m.
100 GE QSFP28 Transceivers, 4 Channel Parallel Fiber, Short Range	FG-TRAN-QSFP28-SR4	100 GE QSFP28 transceivers, 4 channel parallel fiber, short range for all systems with QSFP28 slots.
100 GE QSFP28 Transceivers, 4 Channel Parallel Fiber, Long Range	FG-TRAN-QSFP28-LR4	100 GE QSFP28 transceivers, 4 channel parallel fiber, long range for all systems with QSFP28 slots.
Power Supply		
Power Supply Module	FG-7060E-PS-DC	1500W DC/DC 48–72V 12V125A/5VSB4A, AFB, power supply modules for FG-7060E.

^{*} Each FIM is packed individually and comes with 2x 10 GE SFP+ SR transceivers at no charge.



GLOBAL HEADQUARTERS Fortinet Inc. 899 KIFER ROAD Sunnyvale, CA 94086 United States Tel: +1.408.235.7700 www.fortinet.com/sales

EMEA SALES OFFICE 905 rue Albert Einstein 06560 Valbonne France Tel: +33.4.8987.0500

APAC SALES OFFICE 8 Temasek Boulevard #12-01 Suntec Tower Three Singapore 038988 Tel: +65.6395.2788

LATIN AMERICA SALES OFFICE Sawgrass Lakes Center 13450 W. Sunrise Blvd., Suite 430 Sunrise, FL 33323 United States Tel: +1.954.368.9990

Copyright® 2018 Forthert, Inc. All rights reserved. Forthcate®, FortiCare® and FortiGared®, and certain other marks are registered trademarks of Fortinet, Inc., in the U.S. and other jurisdictions, and other Fortinet names herein may also be registered and/or common taw trademarks of Fortinet. All other product or company runnes may be trademarks of their respective owners. Performance and other results may vary. Network variables, different network environments and other conditions may affect performance results. Nothing herein represents any binding commitment by Fortinet, and Fortinet disclaims all warranties, whether express or implied, except to the extent Fortinet enters a binding written contract, signed by Fortinet's General Coursel, with a purchase that expresses warrants that the identified product in such binding written contract, signed by Fortinet's General Coursel, with a purchase that expresses warrants that the identified product in such binding written contract, signed by Fortinet's General Coursel, with a purchase that expresses warrants that the same ideal conditions as in Fortinet's internal lab tests. In no event does Fortinet make any commitment related to future deliverables, features or development, and circumstances may change such that any forward-looking statements herein are not accurate. Fortinet disclaims in full any covenants, representations, and guarantees pursuant hereto, whether express or implied.