

PRODUCT MATRIX

Virtual Appliance Support Matrix

	VMWare vSphere	Citrix Xen Server	Xen	KVM	Microsoft Hyper-V	Nutanix AHV	Amazon AWS	Microsoft Azure	Oracle OPC/OCI	Google GCP
FortiGate-VM *	•	•	•	•	•	•	• / #	• / #	• / #	• / #
FortiManager-VM	•	•	•	•	•	•	• / #	•	•	•
FortiAnalyzer-VM	•	•	•	•	•	•	• / #	•	•	•
FortiMail-VM	•	•		•	•	•	• / #	• / #		•
FortiAuthenticator-VM	•		•	•	•		•	•	•	
FortiSandbox-VM	•			•	•	•	• / #	#		

*Available as FortiGate-VMX solution for VMware NSX environment, AzureStack and RackSpace (PAYG)
on-demand

FortiGate® Network Security Platform - *Top Selling Models Matrix

	30G	50G	50G Rugged	70G	70G Rugged
Common Use	Home office, pop-up tent, tech backpack	Small office with up to 50 users, light VPN use, light focus on Threat Protection inspection; SD-WAN spoke	5G connectivity for the most severe environment	Small office with up to 100 users, light VPN use, light focus on Threat Protection inspection; SD-WAN spoke	Dual 5G connect with bypass pairs for the most severe environment
Enterprise-Ready Routing (Gbps)	4	5	6	10	8
SD-WAN: Number of Sites ¹	200	200	200	200	200
SD-WAN: Throughput ¹	3.5	4.5	5.3	7.1	7.1
Site-to-Site IPSec: Number of Sites ¹	200	200	200	200	200
Site-to-Site IPSec: Throughput ¹	3.5	4.5	5.3	7.1	7.1
Traditional Firewall: Throughput	4	5	6	10	8
Next-Generation Firewall throughput with Threat Protection ^{2,3}	0.5	1.1	1.1	1.3	1.3
Switch Controller: Number of Switches	8	8	8	24	24
Switch Controller: Throughput	4	5	6	10	8
Wireless Access Point Controller: Number of Aps	16	16	16	96	96
Wireless Access Point Controller: Throughput	4	5	6	10	8
Firewall Latency (micro seconds)	2.87	2.42	2.43	2.46	5.82
Form Factor	Desktop	Desktop	DIN-rail	Desktop	DIN-rail
Quantity of Copper Interfaces	4x	5x	6x	10x	6x (2 of which are bypass pairs)
Quantity of Fiber Interfaces	-	(Optional based upon Model)	2x	-	2x
Trusted Platform Module (TPM)					
Power Requirements (Average Watts) ⁹	6.8	8.3	16	12.3	18.3

	90G	121G	200G	600F	900G
Common Use	Small office with up to 100 users, light VPN use, moderate focus on Threat Protection; SD-WAN spoke	Small office with up to 500 users; protect management networks; SD-WAN hub	Deep SSL inspection; Fiber connectivity; Micro SD-WAN hub	Data Center hosted resource; Micro SD-WAN hub	Critical path protection; Multi Data Center communications
Enterprise-Ready Routing (Gbps)	28	39	39	139	164
SD-WAN: Number of Sites ¹	200	2,000	2,000	2,000	2,000
SD-WAN: Throughput ¹	25	35	36	55	55
Site-to-Site IPSec: Number of Sites ¹	200	2,000	2,000	2,000	2,000
Site-to-Site IPSec: Throughput ¹	25	35	36	55	55
Traditional Firewall: Throughput	28	39	39	139	164
Next-Generation Firewall throughput with Threat Protection ^{2,3}	2.2	2.8	6	10.5	30
Switch Controller: Number of Switches	24	48	64	128	196
Switch Controller: Throughput	28	39	39	139	164
Wireless Access Point Controller: Number of Aps	128	128	256	1,024	2,048
Wireless Access Point Controller: Throughput	28	39	39	139	164
Firewall Latency (micro seconds)	3.23	3.17	4.36	4.12 ULL: 2.5	3.78, ULL: 2.5
Form Factor	Desktop, Wall Mount, Rack Mount Tray, Mounting Ear Bracket	1RU (Rack Mount)	1RU (Rack Mount)	1RU (Rack Mount)	1RU (Rack Mount)
Quantity of Copper Interfaces	10x	16x	16x	16x	16x
Quantity of Fiber Interfaces	2x	18x	12x	16x	16x
Trusted Platform Module (TPM)					
Power Requirements (Average Watts) ⁹	19.9	38	145	169	134

FortiGate® Network Security Platform - *Top Selling Models Matrix

	3200F	3500F	4400F	4800F	6500F
Common Use	Virtual Cluster Zero Trust segmentation; Data Center gateway	Hyperscale operations; Small SD-WAN hub	Protect the Data Center; Medium SD-WAN hub	Data Center routing & segmentation; X-Large SD-WAN hub	High Risk Zone gateway; Small SD-WAN hub
Enterprise-Ready Routing (Gbps)	387	595	1,150	3,100	239
SD-WAN: Number of Sites ¹	40,000	40,000	40,000	40,000	16,000
SD-WAN: Throughput ¹	105	165	310	800	160
Site-to-Site IPSec: Number of Sites ¹	40,000	40,000	40,000	40,000	16,000
Site-to-Site IPSec: Throughput ¹	105	165	310	800	160
Traditional Firewall: Throughput	387	595	1150	3,100	239
Next-Generation Firewall throughput with Threat Protection ^{2,3}	45	63	75	75	100
Switch Controller: Number of Switches	300	300	300	300	256
Switch Controller: Throughput	387	595	1,150	3,100	239
Wireless Access Point Controller: Number of Aps	4,096	4,096	8,192	8,192	-
Wireless Access Point Controller: Throughput	387	595	1,150	3,100	239
Firewall Latency (micro seconds)	3.42 ULL: 1.45	2.98	2.98	3.6	4.8
Form Factor	2 RU (Rack Mount)	2 RU (Rack Mount)	4 RU (Rack Mount)	4 RU (Rack Mount)	3 RU (Rack Mount)
Quantity of Copper Interfaces	-	-	-	-	-
Quantity of Fiber Interfaces	18x	36x	30x	28x	28x
Trusted Platform Module (TPM)					
Power Requirements (Average Watts) ⁹	520	760	1,533	1,602	1,308

ULL= Ultra Low Latency

	7081F	7121F
Common Use	High density port connection; Medium SD-WAN hub	High density port connection; Large SD-WAN Hub
Enterprise-Ready Routing (Gbps)	1,890	1,890
SD-WAN: Number of Sites ¹	40,000	40,000
SD-WAN: Throughput ¹	378	630
Site-to-Site IPSec: Number of Sites ¹	40,000	40,000
Site-to-Site IPSec: Throughput ¹	378	630
Traditional Firewall: Throughput	1,890	1,890
Next-Generation Firewall throughput with Threat Protection ^{2,3}	312	520
Switch Controller: Number of Switches	300	300
Switch Controller: Throughput	1,890	1,890
Wireless Access Point Controller: Number of Aps	-	-
Wireless Access Point Controller: Throughput	1,890	1,890
Firewall Latency (micro seconds)	7.5	7.5
Form Factor	13 RU (Rack Mount)	17 RU (Rack Mount)
Quantity of Copper Interfaces	-	-
Quantity of Fiber Interfaces	180x	144x
Trusted Platform Module (TPM)		
Power Requirements (Average Watts) ⁹	6,160	8,820

1: IPSec VPN performance test uses AES256-SHA256, Throughput numbers are in Gbps (GigaBits per Second)

2: IPS (Enterprise Mix), Application Control, NGFW and Threat Protection are measured with Logging enabled

3: Threat Protection performance is measured with Firewall, IPS, Application Control and Malware Protection enabled.

Hyperscale: 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.

*Please refer to the product's or model's individual data sheet; this prevails for errors or updates. To find out more about FortiGate's product offerings, including FortiGate virtual appliances, please visit www.fortinet.com.

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

FortiSandbox™ Advanced Threat Prevention System

	500G	1500G	3000G	Virtual Machine
Common Use	10 to 20 sites with under 1,000 users	Hundreds of sites with up to 4,000 users	Thousands of sites with up to 20,000 users	Smaller deployments
Effective Sandboxing Throughput (Files per hour) ¹	10,000	32,000	160,000	Up to 7,500
Number of Users ²	1,250	4,000	20,000	40 to 1,600
Number of Local VMs	2 + 12 Optional	2 + 26 Optional	8 + 64 Optional	Up to 8
Trusted Platform Module (TPM)	Yes	Yes	Yes	-
Sniffer Model Throughput (Gbps)	0.5	4	9.6	Varies
MTA Adapter Throughput (Emails/hour)	25,000	80,000	320,000	1k to 12k

1: Tested based on files with 80% documents and 20% executables. Includes both static and dynamic analysis with pre-filtering enabled; measured based on v4.2.22
2: Based on a ratio of one user per 25 emails

FortiMail™ Email Security Server

	200F	400F	900F	3000F	Virtual Machine
Common Use	Small office/branch	Small sized organization, multiple locations	Medium sized organization, multiple locations	Large organization, multiple locations, data center operations.	From the smallest to Largest deployments
Common Number of Users	< 2,000	< 11,000	< 30,000	< 95,000	Up to 125,000
Email Routing with AntiSpam, Virus Outbreak, & Enterprise ATP inspection (Messages per hour) ²	30,000	150,000	400,000	2,100,000	26k to 1M
Cloud API Email Routing with AntiSpam, Virus Outbreak, & Enterprise ATP inspection (Messages per Hour)	12,000	58,000	148,000	465,000	0k to 620k
Protected Email Domains ¹	20	100	800	2,000	20 to 2,000
Server Mode Mailboxes	150	400	1,500	3,000	150 to 3,000
Storage Capacity	1× 1TB	2× 1TB	Default: 2× 2TB (Max 8TB)	Default: 2× 2TB, (Additional 10× 2TB optional)	250 GB to 24 TB
Trusted Platform Module (TPM)	Yes	Yes	Yes	Yes	-
Rack Units	1	1	1	2	-
Power Requirements (Average Watts)	51	77	174	485.1	-

1: Protected Email Domains is the total number of email domains that can be configured on the appliance.
2: Measured based upon 100KB message size, no queuing.

FortiManager™ Centralized Management Platform

	200G	1000G	3100G	3700G	Virtual Machine
Common Use	Up to 10-15 locations with a few virtual devices, monthly configuration changes, single ADOM	High Availability operation, up to 500 sites, weekly configuration changes, less than 10 ADOMs	High Availability in a multi-site cluster, up to 2000 devices with multiple VDOMs, daily configuration changes, less than 50 ADOMs	High Availability in a multi-site cluster, up to 8000 devices with multiple VDOMs, daily configuration changes, less than 200 ADOMs	Any scenario described for the hardware 200G model through 3700G
Devices/VDOMs Managed (Maximum)	30	1,000	4000+	10,000+	10 to 100,000
GB/day of Logs Received	2	2	10	10	Up to 25
Useable Storage After RAID (TB)	4	24	56	224	-
Trusted Platform Module (TPM)	Yes	Yes	Yes	Yes	-
Rack Units	1	1	3	4	-
Power Requirements (Average Watts)	90.1	251.36	395	850	-

VDOM: Virtual Domain (VDOM) is a feature that allows you to divide a single firewall appliance (virtual machine or hardware device) into multiple logical, independent firewalls
ADOM: Administrative Domain (ADOM) is a logical container used to segment different groups of Fortinet devices for management or data separation.

FortiAP™ Wireless Access Point

	FortiAP Series	FortiAP U-Series
Management	FortiGate-Managed, Cloud-Managed	FortiGate-Managed, Cloud-Managed, Controller-Managed
Security	Via FortiGate	Via FortiGate

* Frequency selection and power may be restricted to abide by regional regulatory compliance laws.
For Complete selection of FortiAPs, including remote and outdoor devices, please refer to Fortinet Wireless Solution Matrix

FortiSwitch™ Secure Ethernet Switches

	108F	110G-FPOE	124G	124G-POE	548D-FPOE	648F	648F-FPOE
Limited Lifetime Warranty	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Main Port Speed	GE RJ45	2.5/1/0.1 GE RJ45	2.5/1/0.1/0.001 RJ45	2.5/1/0.1/0.001 RJ45	GE RJ45	5/2.5/1 GE RJ45 2.5/1 GE RJ45	5/2.5/1 GE RJ45 2.5/1 GE RJ45
Main Port Count	8	10	24	24	48	16 + 32	16 + 32
Uplink Port Speed	GE SFP	10/1/0.1 SFP	10G SFP	10G SFP	40 GE QSFP	25/10 GE SFP	25/10 GE SFP
Uplink Port Count	2	4	6	6	2	8	8
MacSEC	No	No	No	No	Yes	Yes	Yes
Mean Time Between Failures	> 10 Years	> 10 Years	> 10 Years	> 10 Years	> 10 Years	> 10 Years	> 10 Years
Power Consumption (Max)	6.2	250	43.5	880	1922	300	2100
Switch Latency	4	<1 micro second	<1 micro second	<1 micro second	<2 micro seconds	<1 micro second	<1 micro second
PoE Ports	-	2× 5G (bt) 8× 2.5G (af/bt)	-	8x (bt) 16x (af/at)	48x (802.3 af/at)	-	48x (802.3 af/at/bt type 4)
PoE Budget (Watts)	-	200	-	780	1,440	-	1,800
Ingress Protection	-	IP30	IP20	IP20	-	-	-

	T1024F-FPOE	2048F	3032E	108F Rugged	112F-POE Rugged	216F-POE Rugged	424F-POE Rugged
Limited Lifetime Warranty	Yes	Yes	Yes				
Main Port Speed	10G/2.5G/1G/100M Base-T	25/10/1 GE SFP	100G/40G QSFP	1G/100M/10M RJ45	1G/100M/10M RJ45	1G/100M/10M RJ45	2.5/1 GE RJ45 2.5/1 GE SFP
Main Port Count	24	48	32	6	8	16	12 + 12
Uplink Port Speed	100G/40G QSFP	100G/40G QSFP	-	1G/100M SFP	1G/100M SFP	1G/100M SFP	40G QSFP+ 10G SFP+
Uplink Port Count	2	8	-	2	4	4	2 + 4
MacSEC	Yes	No	No				
Mean Time Between Failures	> 10 Years	> 10 Years	> 10 Years	> 30 Years	> 30 Years	> 30 Years	> 30 Years
Power Consumption (Max)	1,660	175.7	463.8 W	17	Without POE: 25 W With POE: 396 W	Without POE: 25 W With POE: 396 W	Without POE: 107.1 W With POE: 528.6 W
Switch Latency	~1 micro second	<1 micro second	<1 micro second	<1 micro second	<1 micro second	<1 micro second	<1 micro second
PoE Ports	24x (802.3 af/at/by type 4)	-	-	-	8x (802.3 af/at/bt)	16x (802.3 af/at/bt)	12x (802.3 af/at/ UPOE)
PoE Budget (Watts)	1440	-	-	-	240	360	421
Ingress Protection	-	-	-	IP40	IP40	IP40	IP40

GE = GigaBit Ethernet

FortiWeb™ Web Application Firewall

	100F	600F	1000F	4000F	Virtual Machine
Common Use	Remote deployment, fanless operational environment	Entry API service volume and low volume website; High availability, lower throughput, server closet install	Protect published API service & website; Entry Data Center operations	API gateway & major web service; Enterprise & carrier operations	Cloud or premise virtual workload protection
Common Number of Users (concurrent)	25 to 100	500 to 10,000	1,250 to 25,000	35,000 to 700,000	
Throughput (Gbps)	0.1	1	2.5	70	0.025 to 6
Latency (ms)	<5	<5	<5	<5	-
Application Licenses	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
Administrative Domains	0	32	64	64	4 to 64
Network Architecture	Reverse Proxy, Transparent mode, WCCP, offline (sniffer)				
Interfaces: Copper	4	4 (2 bypass)	8 bypass	8 bypass	1 to 10
Interfaces: Fiber	0	4	6	12 (2 bypass)	-
SSL/TLS Processing	Software	Hardware	Hardware	Hardware	-
Trusted Platform Module (TPM)	No	No	Yes	Yes	1 GB to unlimited
Rack Units	Desktop	1	2	2	-
Power Requirements: Average (Watts)	18	138.74	140	248.5	-

FortiAnalyzer™ Centralized Logging, Reporting and Analytics

	150G	300G	810G	1000G	3100G	3700G	Big Data 4500G	Virtual Machine
Common Use	Up to 25 devices monitored, mostly log collection	Up to 125 devices monitored, monthly reporting	Up to 600 devices monitored, weekly reporting	Up to 1,500 devices monitored, daily reporting, Trigger Automation Flows	Up to 3,000 devices monitored, daily reporting, Trigger Automation Flows, API accessible dataset to power web portal or other tools (moderate use)	Up to 10,000 devices monitored, daily reporting, Trigger Automation Flows, API accessible dataset to power web portal or other tools (heavy use), long-term data retention on-box	Up to 10,000 devices monitored, active data investigation, API accessible dataset to power web portal or other tools (heavy use), long-term data retention on-box	Up to 10,000 devices monitored, active data investigation, API accessible dataset to power web portal or other tools (heavy use), long-term data retention on-box
Common User Count ¹	100	400	800	4,000	8,400	20,000	60,000	60,000
GB Logs/Day	25	100	200	660	3,000	8,300	20,000	1 to 2,000+
Analytic Sustained Rate (logs/sec) ²	500	2,000	4,000	20,000	42,000	100,000	300,000	Hardware Dependent
Useable Storage After RAID (TB)	2	4	8	24	56	224	207	Not Limited
Trusted Platform Module (TPM)	Yes	Yes	Yes	Yes	Yes	Yes	No	-
Rack Units	Desktop	1	1	2	3	4	4	-
Power Requirements (Average Watts)	36	90.1	115	251.36	395	850	7,000	-

1: Common User Count assumptions: A user's maximum log generation is up to 5 logs per second

2: Sustained Rate = maximum constant log message rate the FortiAnalyzer can maintain for a minimum of 48 hours without SQL database and system performance degradation

FortiAuthenticator™ User Identity Management Server

	FAC-300F	FAC-800F	FAC-3000F	FAC-VM BASE to FAC-VM-10000-UG
Max Local + Remote Users/ User Group	1,500 / 150	8,000 / 800	40,000 / 240,000	100 / 10 to +10,000 / 1,000
Max NAS Devices	500	2,666	80,000	33 to +33,333
Max FortiTokens	3,000	16,000	480,000	200 to +20,000
Interfaces	4x GE RJ45	4x GE RJ45, 2x SFP	4x GE RJ45, 2x SFP	1 - 4 vNICs
Storage Capacity	2	2x 2 TB	2x 2 TB	60 GB to 16 TB

FortiExtender™ 3G/4G WAN Extender

	FortiExtender 200F	FortiExtender 202F	FortiExtender 212F Vehicle Rugged	FortiExtender 511G	FortiExtender 511G with WiFi	FortiExtender 511G Vehicle	FortiExtender 511G Rugged
Cellular Modem Count	-	2	2	1	1	1	1
Cellular 5G	-	-	-	4	4	4	4
Cellular 4G / LTE	-	6	2	4	4	4	4
Cellular 3G	-	-	-	4	4	-	-
WiFi Antennas	-	-	2	-	2	2	2
GPS Antenna	-	1	2	Shared with 5G/LTE RF port1	Shared with 5G/LTE RF port1	1	1
PoE Powered capable	Not Available	Yes, delivered 15.4 W via PoE 802.3af	Not Available	Yes, delivered 25.5 W via PoE 802.3at	Yes, delivered 25.5 W via PoE 802.3at	Not Available	Yes, 2.5G WAN port received 802.3at
Install Location	Indoor	Indoor	Indoor, In-vehicle	Indoor	Indoor	Vehicle	Outdoor
Max Power Draw (Watts)	6.8	9.4	22.8	18	22.5	20	16
WiFi Support	-	-	2x2 2.4/5GHz 802.11 a/b/g/n/ac wave2	-	2.4/5GHz 802.11 1/b/g/n/ac Wave 2, WiFi 6 (802.11ax)	2.4/5GHz 802.11 1/b/g/n/ac Wave 2, WiFi 6 (802.11ax)	2.4/5GHz 802.11 1/b/g/n/ac Wave 2, WiFi 6 (802.11ax)
Ingress Protection	-	-	IP64	-	-	IP64	IP67
Shock/Vibration/Humidity	-	-	MIL-STD-810H, SAE-J1455	-	-	MIL-STD-810H	IEC 61850-3 / IEEE 1613
SKU	FEX-200F	FEX-202F-AM	FEV-212F-AM	FEX-511G	FEX-511G-WIFI	FEV-511G	FER-511G

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