

Product Matrix

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Product Matrix

FortiGate® Network Security Platform

	30G	50G	50G RUGGED	70G
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
SD-WAN: Number of Sites ¹	200	200	200	200
Site-to-Site IPSec: Number of Sites ¹				
SD-WAN: Throughput ¹ (Gbps)	3.5	4.5	5.3	7.1
Site-to-Site IPSec: Throughput ¹ (Gbps)				
Traditional Firewall: Throughput (Gbps)	4	5	6	10
Next-Generation Firewall with Threat Protection: Throughput (Gbps) ^{2,3}	0.5	1.1	1.1	1.3
Switch Controller: Number of Switches	8	8	8	24
Switch Controller: Throughput (Gbps)	4	5	6	10
Wireless Access Point Controller: Number of APs	16	16	16	96
Wireless Access Point Controller: Throughput (Gbps)	4	5	6	10
Firewall Latency (µS)	2.87	2.42	2.43	2.46
Form Factor	Desktop	Desktop	DIN-rail	Desktop
Max FortiAPs: Total	16	16	16	96
Max FortiAPs: Tunnel	8	8	8	48
Max FortiSwitches	8	8	8	24
Max FortiTokens	500	500	500	500
Virtual Domains (Default / Max)	Not Supported	5 / 5	5 / 5	10 / 10
Quantity of Copper Interfaces	4	5	6	10
Quantity of Fiber Interfaces	-	(Optional based upon Model)	2	-
Power Consumption: Average (Watts) ⁴	6.8	8.3	16	12.3
FortiASIC	SoC4	SP5	SP5	SP5

¹: IPSec VPN performance test uses AES256-SHA256 | 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. | ⁴: Average Watts. If a model has a multiple variants, the model with the least power requirements is displayed | 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.

FortiGate® Network Security Platform

	70G RUGGED	90G	200G	700G	3000G
Common Use	Dual 5G connect with bypass pairs for the most severe environment	Small office with up to 100 users, light VPN use, moderate focus on Threat Protection; SD-WAN spoke	Deep SSL inspection; Fiber connectivity; Micro SD-WAN hub	Enterprise Branch / Mid Enterprise NGFW / Secure SD-WAN / IPS / SWG	Large Enterprise / Data Center / SP NGFW / ISFW / IPS / SWG / Mobile Security
SD-WAN: Number of Sites ¹	200	200	2,000	2,000	40,000
Site-to-Site IPSec: Number of Sites ¹					
SD-WAN: Throughput ¹ (Gbps)	7.1	25	36	55	105
Site-to-Site IPSec: Throughput ¹ (Gbps)					
Traditional Firewall: Throughput (Gbps)	8	28	39	163	394
Next-Generation Firewall with Threat Protection: Throughput (Gbps) ^{2,3}	1.3	2.2	6	26	80
Switch Controller: Number of Switches	24	24	64	96	300
Switch Controller: Throughput (Gbps)	8	28	39	163	394
Wireless Access Point Controller: Number of APs	96	128	256	1,024	4,096
Wireless Access Point Controller: Throughput (Gbps)	8	28	39	163	394
Firewall Latency (µS)	5.82	3.23	4.36	3.87	3.7
Form Factor	DIN-rail	Desktop, Wall Mount, Rack Mount Tray, Mounting Ear Bracket	1 RU	1 RU	2 RU
Max FortiAPs: Total	96	128	256	1,024	4,096
Max FortiAPs: Tunnel	48	64	128	512	2,048
Max FortiSwitches	24	24	64	96	300
Max FortiTokens	500	500	5,000	5,000	20,000
Virtual Domains (Default / Max)	10 / 10	10 / 10	10 / 25	10 / 50	10 / 500
Quantity of Copper Interfaces	6 (2 of which are bypass pairs)	10	16	10	18
Quantity of Fiber Interfaces	2	2	12	24	22
Power Consumption: Average (Watts) ⁴	18.3	19.9	145	230	550
FortiASIC	SP5	SP5	SP5 & CP10	NP7 & CP10	NP7 & CP10

FortiAuthenticator™ User Identity Management Server

	FAC-300G	FAC-800G	FAC-3000G
10/100/1000 Interfaces (Copper, RJ-45)	4	4	4
SFP Interfaces	0	2	2
Local Storage	2 × 1TB SSD - RAID 1	2 × 2TB SSD - RAID 1	2 × 2TB SSD - RAID 1
Trusted Platform Module (TPM)	Yes	Yes	Yes
Power Supply	450W Redundant Auto Ranging (100-240V), Optional Dual (1+1)	Dual (1+1) 450W Redundant Auto Ranging (100-240V)	Dual (1+1) 850W Redundant Auto Ranging (100-240V)
User Groups	300	1,600	8,000
Local + Remote Users (Base / Upper Limit)	1,500 / 3,500	8,000 / 18,000	40,000 / 1 million
FortiTokens	3,000	16,000	80,000
RADIUS Clients (NAS Devices) (Base / Upper Limit)	500 / 1,166	2,666 / 6,000	13,333 / 80,000
Power Consumption: Average (Watts)	101.5	159.2	177

FortiGate® Network Security Platform

	3800G	4400F	4800F	7081F	7121F
Common Use	High performance with flexibility	Protect the Data Center; Medium SD-WAN hub	Data Center routing & segmentation; X-Large SD-WAN hub	High density port connection; Medium SD-WAN hub	High density port connection; Large SD-WAN Hub
SD-WAN: Number of Sites ¹	40,000	40,000	40,000	40,000	40,000
Site-to-Site IPsec: Number of Sites ¹					
SD-WAN: Throughput ¹ (Gbps)	210	310	800	378	630
Site-to-Site IPsec: Throughput ¹ (Gbps)					
Traditional Firewall: Throughput (Gbps)	795	1,150	3,100	1,890	1,890
Next-Generation Firewall with Threat Protection: Throughput (Gbps) ^{2,3}	200	75	75	312	520
Switch Controller: Number of Switches	300	300	300	300	300
Switch Controller: Throughput (Gbps)	795	1,150	3,100	1,890	1,890
Wireless Access Point Controller: Number of APs	8,192	8,192	8,192	-	-
Wireless Access Point Controller: Throughput (Gbps)	795	1,150	3,100	1,890	1,890
Firewall Latency (µS)	3.53	2.98	3.6	7.5	7.5
Form Factor	3 RU	4 RU	4 RU	13 RU	17 RU
Max FortiAPs: Total	8,192	8,192	8,192	-	-
Max FortiAPs: Tunnel	4,096	4,096	4,096	-	-
Max FortiSwitches	300	300	300	300	300
Max FortiTokens	20,000	20,000	20,000	12,000	20,000
Virtual Domains (Default / Max)	10 / 500	10 / 500	10 / 500	10 / 500	10 / 500
Quantity of Copper Interfaces	2	-	-	-	-
Quantity of Fiber Interfaces	28	30	28	180	144
Power Consumption: Average (Watts) ⁴	1,496	1,533	1,602	6,160	8,820
FortiASIC	NP7 & CP10	NP7 & CP9	NP7 & CP9	NP6 & CP9	NP6 & CP9

1: IPsec VPN performance test uses AES256-SHA256 | 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. | 4: Average Watts. If a model has a multiple variants, the the model the the least power requirements is displayed | 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.

FortiAP™ Wireless Access Point

Deployment Category	FAP-231K	FAP-241K FAP-243K	FAP-441K	FAP-831F
Application	General office / branch tri-band AP.	Higher-capacity office / campus APs with dedicated scan radio.	Flagship indoor APs with maximum K-series Wi-Fi 7 radio capacity.	Prior generation high-density
Sub-Category	Tri-Band Wi-Fi 7 2x2	High-Density Wi-Fi 7 2x2	Flagship Wi-Fi 7 4x4	High-Density Wi-Fi 6 8x8
WiFi Generations	Wi-Fi 7	Wi-Fi 7	Wi-Fi 7	Wi-Fi 6
Radio Architecture	Tri-radio	Quad-radio	Quad-radio	Tri-radio
MIMO	2x2	2x2	4x4	8x8
Antenna Styles	Internal	Internal External	Internal	Internal
Ethernet Classes	1x 5 GbE	10 GbE + 1 GbE	2x 10 GbE	5 GbE + 1 GbE
Key Specializations	6GHz, BLE/ZigBee, GPS	6GHz, BLE/ZigBee, UTP, dedicated scan radio	6GHz, BLE/ZigBee, GPS, UTP, dedicated scan radio	BLE, 8x8 5GHz

FortiManager™ Centralized Management Platform

	200G	1000G	3100G	3750G	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 2,000 devices with multiple VDOMs, daily configuration changes, less than 50 ADOMs	-	Any scenario described for the hardware 200G model through 3,700G
Devices/VDOMs Managed (Maximum)	30	1,000	4,000 to 8,000	10,000 to 100,000	10 to 100,000
Sustained Log Rates (events per second)	50	50	150	150	Hardware dependent
GB/day of Logs Received	2	2	10	10	Up to 25
Interfaces: Copper	4x RJ45	2x 2.5GE RJ45	2x GE RJ45	2x 10GE RJ45	Up to 12 vNICs
Interfaces: Fiber	-	2x 25GE SFP28	2x 25GE SFP28	2x 25GE SFP28	-
Storage Capacity	2x 4TB	8x 4TB	60x 4TB HDD, 6x 3.2TB NVMe	24x 16TB HDD, 4x 15TB NVMe	80GB to 16TB
Rack Units	1	2	3	4	-
Power Supply Type	Single AC power supply, field serviceable (Optional redundant power supply available) Redundant AC power supplies, Field serviceable				-
Power Consumption: Average (Watts)	90.1	251.36	395	1,134	-
Useable Storage After RAID (TB)	4	24	56	384	-
Trusted Platform Module (TPM)	Yes	Yes	Yes	Yes	-

FortiAnalyzer™ Centralized Logging, Reporting and Analytics

	300G	810G	1000G	3100G	3510G	3700G	BIG DATA 4500G	VIRTUAL MACHINE
Common Use	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)	Centralized log and analysis appliance — 2x 10GbE RJ45, 2x 25GbE SFP28, 96 TB storage, up to 5,000 GB/ day of logs	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	400	800	4,000	8,400	12,000	20,000	60,000	60,000
GB Logs/Day	100	200	660	3,000	5,000	8,300	20,000	1 to 2,000+
Analytic Sustained Rate (logs/sec) ²	2,000	4,000	20,000	42,000	60,000	100,000	300,000	Hardware Dependent
Interfaces: Copper	4x GE RJ45	4x GE RJ45	2x 2.5 GE RJ45	2x GE RJ45	2x 10GE	2x 10GE RJ45	-	1 to 12 vNICs
Interfaces: Fiber	-	2x GE SFP	2x 25GE SFP28	2x 25GE SFP28	2x 25GE SFP28	2x 25GE SFP28	6x 100GE QSFP28 / 40GE QSFP+	-
Storage Capacity	2x 4TB	4x 4TB	8x 4TB	16x 4TB	24x 4TB (96TB) + 2x 3.84TB (7.68TB)	60x 4TB, 6x 3.2TB NVMe	16x 7.68TB SSD	500GB to 100+ TB
Rack Units	1	1	2	3	4	4	4	-
Power Supply Type	Single AC power supply, field serviceable (Optional redundant power supply) Dual AC power supplies, field serviceable, N+N redundancy ³						Four AC power supplies, field serviceable, N+1 redundancy ³	-
Power Consumption: Average (Watts)	90.1	115	251.36	395	983	850	7,000	-
Useable Storage After RAID (TB)	4	8	24	56	84	224	207	Not Limited
Trusted Platform Module (TPM)	Yes	Yes	Yes	Yes	Yes	Yes	No	-

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 | 3: 3700G must connect to a 200v-240v power source

FortiWeb™

	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	-	32	64	64	4 to 64
Network Architecture	Reverse Proxy, Transparent mode, WCCP, offline (sniffer)				
Trusted Platform Module	No	No	Yes	Yes	1 GB to unlimited
Rack Units	Desktop	1	2	2	-
Power Requirements: Average (Watts)	18	138.74	140	248.5	-
Interfaces: Copper	4	4 (2 bypass)	8 bypass	8 bypass	1 to 10
Interfaces: Fiber	-	4	6	12 (2 bypass)	-
SSL/TLS Processing	Software	Hardware	Hardware	Hardware	-

FortiMail™ Email Security Server

	200F	400F	900G	3000FH	Virtual Machine
Common Use	Small office/branch	Small sized organization, multiple locations	Mid to large enterprise, education, and government departments	Highest performing appliance for the largest corporate, ISP, and carriers requiring more memory (512 GB vs 64 GB)	From the smallest to Largest deployments
Email Routing with AntiSpam, Virus Outbreak, & Enterprise ATP inspection (Messages per hour) ¹	30,000	150,000	650,000	2,100,000	26k to 1M
Cloud API Email Routing with AntiSpam, Virus Outbreak, & Enterprise ATP inspection (Messages per Hour)	12,000	58,000	200,000	465,000	0k to 620k
Protected Email Domains ²	20	100	500	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, (Additional 10× 2TB optional)		250 GB to 24 TB
Trusted Platform Module	Yes	Yes	Yes	Yes	-
Rack Units	1	1	1	2	-
Power Consumption: Average (Watts)	51	77	165.56	485.1	-
Interfaces: Copper	4× 1 GE RJ45	4× 1 GE RJ45	4× 1 GE RJ45	4× 1 GE RJ45	4 to 6 vNICs
Interfaces: Fiber	-	-	2x SFP GE	2x SFP GE, 2x SFP+ 10 GE	-

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

FortiExtender™ 3G/4G WAN Extender

	FortiExtender 200F [Wired Only]	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	-	-	-	-
Cellular 3G	-	-	-	-	-	-	-
WiFi Antennas	-	-	2	-	2	2	2
GPS Antenna	-	1	2	Shared with 5G/LTE RF port1	-	1	1
PoE Powered capable	-	Delivered 15.4 W via PoE 802.3af	-	Delivered 25.5 W via PoE 802.3at	-	-	2.5G WAN port received 802.3at
Install Location	Indoor	Indoor	Indoor, In-vehicle	Indoor	-	Vehicle	Outdoor
Power Consumption: Max (Watts)	6.8	9.4	22.8	18	22.5	20	16
WiFi Support	-	-	2×2 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)	-
Ingress Protection	-	-	IP64	-	-	IP64	IP67
Shock, Vibration, Humidity	-	-	MIL-STD-810H, SAE-J1455	-	-	MIL-STD-810H	IEC 61850-3, IEEE 1613

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
Trust 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	Up to 240,000
Interfaces: Fiber	2× 10 GE SFP+	2× 10 GE SFP+	8× 10 GE SFP+	-
Power Consumption: Average (Watts)	71.8	238.1	471.9	-

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

FortiSwitch™ Secure Ethernet Switches

	108F	110G-FPOE	124G	124G-POE	648F	648F-FPOE	1048G	2048F	3032G	108F Rugged	112F-POE Rugged	216F-POE Rugged	424F-POE Rugged
Limited Lifetime Warranty	Yes	Yes	Yes	Yes	Yes	-	Yes	Yes	Yes	-	-	-	-
Main Port Speed	GE RJ45	2.5/1/0.1 GE RJ45	124G/2.5/1/0.1/0.001 RJ45	5/2.5/1 GE RJ45	2.5/1 GE RJ45	10 GE SFP/ SFP+	25/10/1 GE SFP	100 GE/40 GE QSFP28/ 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	8	10	24	-	16 + 32	-	48	48	32	6	8	16	12 + 12
Uplink Port Speed	GE SFP	10/1/0.1 SFP	10G SFP	-	25/10 GE SFP	-	100 GE QSFP28	100G/40G QSFP	10 GE SFP+	1G/100M SFP	1G/100M SFP	1G/100M SFP	40G QSFP+ 10G SFP+
Uplink Port Count	2	4	6	-	8	-	6	8	2	2	4	4	2 + 4
MacSEC	-	-	-	-	-	Yes	Yes	-	Yes	-	-	-	-
Mean Time Between Failures	> 10 Years	> 10 Years	> 10 Years	-	> 10 Years	-	> 10 Years	> 10 Years	> 10 Years	> 30 Years	> 30 Years	> 30 Years	> 30 Years
Power Consumption: Max (Watts)	6.2	250	43.5	880	300	2,100	585.78	175.7	175.7	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 (µS)	4	<1	<1	-	<1	-	~1	<1	<1	<1	<1	<1	<1
PoE Ports	-	2× 5G (bt) 8× 2.5G (af/bt)	-	8x (bt) 16x (af/at)	-	48 (802.3 af/at/bt type 4)	-	-	-	-	8 (802.3 af/at/bt)	16 (802.3 af/at/bt)	12 (802.3 af/at/4-pair 60W)
PoE Budget (Total W)	-	200	-	780	-	1,800	-	-	-	-	240	360	421
Ingress Protection	-	IP30	IP20	-	-	-	-	-	-	IP40	IP40	IP40	IP40

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