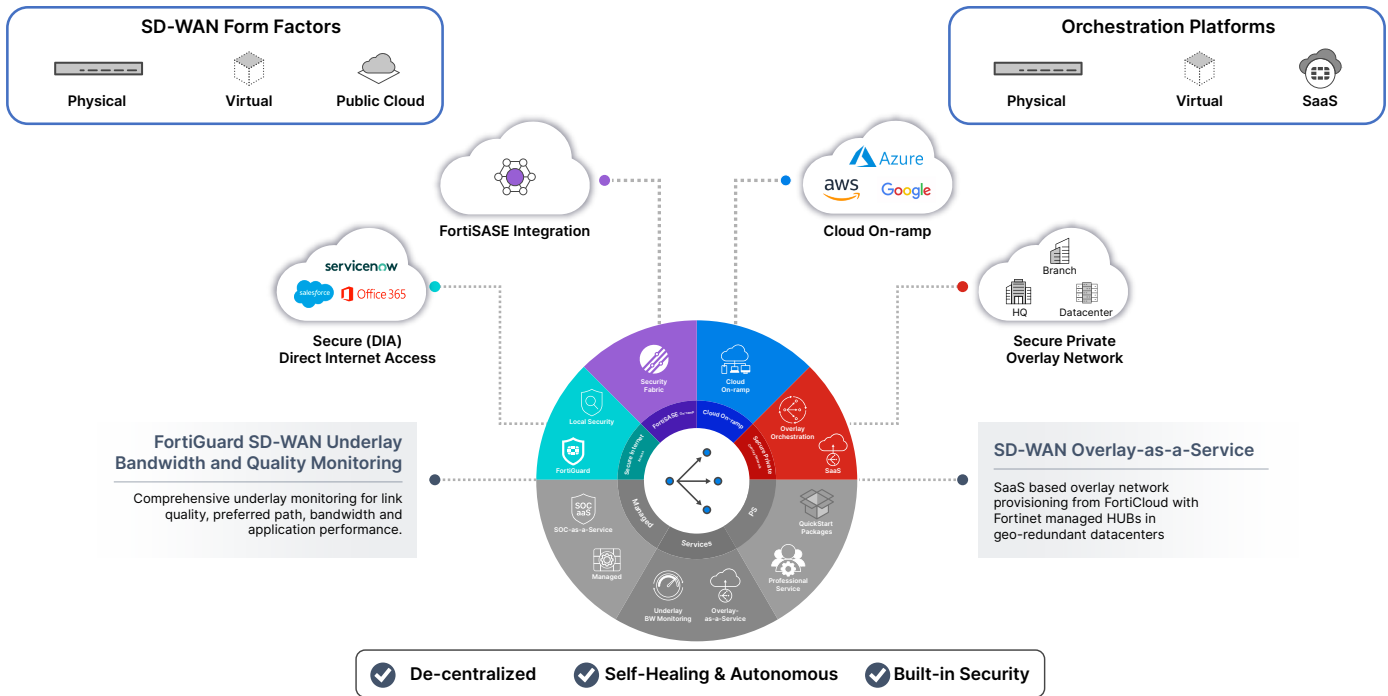


Secure SD-WAN



BRANCHES	SMALL RETAIL/OFFICE		MEDIUM RETAIL/BRANCH/SMB				LARGE BRANCH/CAMPUS		
Appliances	30G	40F	50G	70G	80F	90G	100F	120G	200G
IPsec VPN Throughput ¹	3.5 Gbps	4.4 Gbps	4.5 Gbps	7.1 Gbps	6.5 Gbps	25 Gbps	11.5 Gbps	35 Gbps	36 Gbps
Threat Protection ²	500 Mbps	600 Mbps	1.1 Gbps	1.3 Gbps	900 Mbps	2.2 Gbps	1 Gbps	2.8 Gbps	
Application Control Throughput ³	830 Mbps	990 Mbps	2.8 Gbps	3.6 Gbps	1.8 Gbps	6.7 Gbps	2.2 Gbps	6.7 Gbps	27.8 Gbps
SSL Inspection Throughput	400 Mbps	310 Mbps	1.3 Gbps	1.4 Gbps	715 Mbps	2.6 Gbps	1 Gbps	3 Gbps	7 Gbps
Unrestricted Bandwidth	✓	✓	✓	✓	✓	✓	✓	✓	✓
Zero Trust Network Access (ZTNA)	✓	✓	✓	✓	✓	✓	✓	✓	✓
Services									
Cloud Management & Analytics	Available with FGT Cloud Management & Analytics license								
Underlay Monitoring Services	Available with SD-WAN Underlay Bandwidth and Quality Monitoring Service								
Overlay-as-a-Service	Available with Overlay-as-a-Service license								
Connectivity									
Interfaces	4x GE RJ45	5 x GE RJ45	5 x GE RJ45	8 × 10 GE SFP+ 8 × 5 GE RJ45 10 x GE RJ45 4 x GE SFP	8 x GE RJ45 2 x Shared Port Pairs	8 x GE RJ45 2 × 10 GE Shared Port Pairs	18 x GE RJ45 8 x GE SFP 2 × 10 GE SFP+ 4 x Shared Port Pairs	18 x GE RJ45 8 x GE SFP 4 × 10 GE SFP+	18 x GE RJ45 8 x GE SFP 4 × 10 GE SFP+
Hardware Variants	WiFi	WiFi, 3G4G	WiFi, Storage, DSL, SFP, POE	Storage	WiFi, Bypass, POE, Storage	Storage	Storage	Storage	Storage
5G/LTE Connectivity	Supports FortiExtender	3G4G Variant (40F-3G4G)	5G Variant (50G-5G)	Supports FortiExtender	Supports FortiExtender	Supports FortiExtender	Supports FortiExtender	Supports FortiExtender	Supports FortiExtender
Extensibility	Supports FortiAP, FortiSwitch								
Form Factor	Desktop	Desktop	Desktop	1RU	Desktop	Desktop	1RU	1RU	1RU
Power Supply	Single AC PS	Single AC PS	Single AC PS	Dual AC PS	Single AC PS, dual inputs	Single AC PS, dual inputs	Dual AC PS	Dual AC PS	Dual AC PS

1 The IPsec VPN performance test uses AES256-SHA256

2 SSL Inspection performance values use an average of HTTPS sessions of different cipher suites

3 IPS, Application Control, NGFW, and Threat Protection are measured with logging enabled

BRANCH BUNDLES

FortiGate Unified Threat Protection	30G	40F	50G	70G	80F	90G	100F	120G	200G
Base	FG-30G-BDL-950-DD	FG-40F-BDL-950-DD	FG-50G-BDL-950-DD	FG-70G-BDL-950-DD	FG-80F-BDL-950-DD	FG-90G-BDL-950-DD	FG-100F-BDL-950-DD	FG-120G-BDL-950-DD	FG-200G-BDL-950-DD
Wifi Variant		Refer to Price List	Refer to Price List	Refer to Price List	Refer to Price List				
Cellular Variant		FG-40F-3G4G-BDL-950-DD	FG-50G-5G-BDL-950-DD						
Wifi + Cellular Variant		Refer to Price List							
DSL Variant			FG-50G-DSL-BDL-950-DD						
Wifi + Cellular + DSL Variant					Refer to Price List				
Storage Variant			FG-51G-BDL-950-DD	FG-71G-BDL-950-DD	FG-81F-BDL-950-DD	FG-91G-BDL-950-DD	FG-101F-BDL-950-DD	FG-121G-BDL-950-DD	FG-201G-BDL-950-DD
Wifi + Storage Variant			Refer to Price List	Refer to Price List	Refer to Price List				
Wifi + Storage + DSL Variant					Refer to Price List				
Bypass					FG-80F-BYPASS-BDL-950-DD				
POE			FG-50G-SFP-POE-BDL-950-DD		FG-80F-POE-BDL-950-DD FG-80F-DSL-BDL-950-DD				
Renewal									
Base	FC-10-FG30G-950-02-DD	FC-10-0040F-950-02-DD	FC-10-GT50G-950-02-DD	FC-10-0070G-950-02-DD	FC-10-0080F-928-02-DD	FC-10-0090G-928-02-DD	FC-10-F100F-928-02-DD	FC-10-F120G-950-02-DD	FC-10-F200G-928-02-DD
Wifi Variant		Refer to Price List		Refer to Price List	Refer to Price List				
Cellular Variant		FC-10-F40FG-950-02-DD	FC-10-F50G5-950-02-DD						
Wifi + Cellular Variant		Refer to Price List							
DSL Variant			FC-10-F50GD-950-02-DD						
Storage Variant			FC-10-GT51G-950-02-DD	FC-10-0071G-950-02-DD	FC-10-0081F-950-02-DD		FC-10-F101F-950-02-DD	FC-10-F121G-950-02-DD	FC-10-F201G-950-02-DD
Wifi + Storage Variant				Refer to Price List	Refer to Price List				
Bypass					FC-10-F80FC-950-02-DD				
POE					FC-10-F80FP-950-02-DD				
Services									
FGT Cloud Management & Analytics (base)	FC-10-FG30G-131-02-DD	FC-10-0040F-131-02-DD	FC-10-GT50G-131-02-DD	FC-10-FG70G-131-02-DD	FC-10-0080F-131-02-DD	FC-10-0090G-131-02-DD	FC-10-F100F-131-02-DD	FC-10-F120G-131-02-DD	FC-10-F200G-131-02-DD
SDWAN-Underlay Monitoring Services (base)	FC-10-FG30G-288-02-DD	FC-10-0040F-288-02-DD	FC-10-GT50G-288-02-DD	FC-10-FG70G-288-02-DD	FC-10-0080F-288-02-DD	FC-10-0090G-288-02-DD	FC-10-F100F-288-02-DD	FC-10-F120G-288-02-DD	FC-10-F200G-288-02-DD
SDWAN Overlay-as-a-Service	FC-10-FG30G-657-02-DD	FC-10-0040F-657-02-DD	FC-10-GT50G-657-02-DD	FC-10-FG70G-657-02-DD	FC-10-0080F-657-02-DD	FC-10-0090G-657-02-DD	FC-10-F100F-657-02-DD	FC-10-F120G-657-02-DD	FC-10-F200G-657-02-DD

HUBS

Appliances	400F	600F	900G	1000F	1800F	2600F
IPsec VPN Throughput ¹	55 Gbps	55 Gbps	55 Gbps	55 Gbps	55 Gbps	55 Gbps
Max IPsec Tunnels ¹	50,000	50,000	50,000	100,000	100,000	100,000
Threat Protection ²	9 Gbps	10.5 Gbps	20 Gbps	13 Gbps	15 Gbps	25 Gbps
SSL Inspection Throughput ³ (IPS, avg. HTTPS)	8 Gbps	9 Gbps	16.7 Gbps	10 Gbps	12 Gbps	20 Gbps
Services						
Cloud Management & Analytics	Available with FGT Cloud Management & Analytics license					
Underlay Monitoring Services	Available with SD-WAN Underlay Bandwidth and Quality Monitoring Service					
Overlay-as-a-Service	Available with Overlay-as-a-Service license					
Connectivity						
100GE QSFP28				✓	✓	✓
40GE QSFP+				✓	✓	✓
25GE SFP28		✓	✓	✓	✓	✓
10GE SFP+	✓	✓	✓	✓	✓	✓
1GE SFP/RJ45	✓	✓	✓	✓	✓	✓
Hardware Variants						
Built-in Storage	✓	✓	✓	✓	✓	✓
Bypass						
Redundant Hot-Swap PSUs	✓	✓	✓	✓	✓	✓
DC Power					✓	✓

HUBS

Appliances	3000F	3200G	3300E	3400E	3500F	3700F
IPsec VPN Throughput ¹	105 Gbps	105 Gbps	98 Gbps	140 Gbps	165 Gbps	160 Gbps
Max IPsec Tunnels ¹	200,000	200,000	200,000	200,000	200,000	200,000
Threat Protection ²	33 Gbps	45 Gbps	17 Gbps	25 Gbps	63 Gbps	75 Gbps
SSL Inspection Throughput ³ (IPS, avg. HTTPS)	29 Gbps	29 Gbps	21 Gbps	30 Gbps	63 Gbps	55 Gbps
Services						
Cloud Management & Analytics	Available with FGT Cloud Management & Analytics license					
Underlay Monitoring Services	Available with SD-WAN Underlay Bandwidth and Quality Monitoring Service					
Overlay-as-a-Service	Available with Overlay-as-a-Service license					
Connectivity						
400GE QSFP-DD						✓
200GE QSFP56						✓
100GE QSFP28	✓			✓	✓	✓
50GE SFP56						✓
40GE QSFP+	✓		✓	✓	✓	✓
25GE SFP28	✓		✓	✓	✓	✓
10GE SFP+	✓		✓	✓	✓	✓
1GE SFP/RJ45	✓		✓	✓	✓	✓
Hardware Variants						
Built-in Storage	✓		✓	✓	✓	✓
Bypass						
Redundant Hot-Swap PSUs	✓		✓	✓	✓	✓
DC Power				✓		

¹ The IPsec VPN performance test uses AES256-SHA256

² SSL Inspection performance values use an average of HTTPS sessions of different cipher suites

³ IPS, Application Control, NGFW, and Threat Protection are measured with logging enabled

HUBS			
Appliances	4200G	4400F	4800F
IPsec VPN Throughput ¹	210 Gbps	310 Gbps	800 Gbps
Max IPsec Tunnels ¹	200,000	200,000	200,000
Threat Protection ²	45 Gbps	75 Gbps	75 Gbps
SSL Inspection Throughput ³ (IPS, avg. HTTPS)	50 Gbps	86 Gbps	63 Gbps
Services			
Cloud Management & Analytics			
Underlay Monitoring Services			
Overlay-as-a-Service			
Connectivity			
400GE QSFP-DD			✓
200GE QSFP56			✓
100GE QSFP28	✓	✓	✓
50GE SFP56			✓
40GE QSFP+	✓	✓	✓
25GE SFP28	✓	✓	✓
10GE SFP+	✓	✓	✓
1GE SFP/RJ45	✓	✓	✓
Hardware Variants			
Built-in Storage	✓	✓	✓
Bypass			
Redundant Hot-Swap PSUs	✓	✓	✓
DC Power	✓	✓	

¹ The IPsec VPN performance test uses AES256-SHA256

² SSL Inspection performance values use an average of HTTPS sessions of different cipher suites

³ IPS, Application Control, NGFW, and Threat Protection are measured with logging enabled

HUB BUNDLES

FortiGate Unified Threat Protection	400F	600F	900G	1000F	1800F	2600F
Base	FG-400F-BDL-950-DD	FG-600F-BDL-950-DD	FG-900G-BDL-950-DD	FG-1000F-BDL-950-DD	FG-1800F-BDL-950-DD	FG-2600F-BDL-950-DD
Storage Variant	FG-401F-BDL-950-DD	FG-601F-BDL-950-DD	FG-901G-BDL-950-DD	FG-1001F-BDL-950-DD	FG-1801F-BDL-950-DD	FG-2601F-BDL-950-DD
Bypass						
DC Power Variant					FG-1800F-DC-BDL-950-DD	FG-2600F-DC-BDL-950-DD
Storage + DC Power Variant					FG-1801F-DC-BDL-950-DD	FG-2601F-DC-BDL-950-DD
Renewal						
Base	FC-10-0400F-950-02-DD	FC-10-0600F-950-02-DD	FC-10-0900G-950-02-DD	FC-10-F1K0F-950-02-DD	FC-10-F18HF-950-02-DD	FC-10-F26HF-950-02-DD
Storage Variant	FC-10-0401F-950-02-DD	FC-10-0601F-950-02-DD	FC-10-0901G-950-02-DD	FC-10-F1K1F-950-02-DD	FC-10-F18F1-950-02-DD	FC-10-F26F1-950-02-DD
Bypass						
DC Power					FC-10-D18HF-950-02-DD	FC-10-FD26F-950-02-DD
Storage + DC Power Variant					FC-10-D18F1-950-02-DD	FC-10-FD26F1-950-02-DD
Services						
FGT Cloud Management & Analytics (base)	FC-10-0400F-131-02-DD	FC-10-0600F-131-02-DD	FC-10-0900G-131-02-DD	FC-10-F1K0F-131-02-DD	FC-10-F18HF-131-02-DD	FC-10-F26HF-131-02-DD
SDWAN-Underlay Monitoring Services (base)	FC-10-0400F-288-02-DD	FC-10-0600F-288-02-DD	FC-10-0900G-288-02-DD	FC-10-F1K0F-288-02-DD	FC-10-F18HF-288-02-DD	FC-10-F26HF-288-02-DD
SDWAN Overlay-as-a-Service	FC-10-0400F-657-02-DD	FC-10-0600F-657-02-DD	FC-10-FG9H0-657-02-DD	FC-10-F1K0F-657-02-DD	FC-10-F18HF-657-02-DD	FC-10-F26HF-657-02-DD
Licenses						
HyperScale					LIC-FG18F-HYPSC	LIC-FG26F-HYPSC
Carrier						

HUB BUNDLES

FortiGate Unified Threat Protection	3000F	3200G	3300E	3600E	3500F
Base	FG-3000F-BDL-950-DD	FG3200G-BDL-950-DD	FG-3300E-BDL-950-DD	FG-3600E-BDL-950-DD	FG-3500F-BDL-950-DD
Storage Variant	FG-3001F-BDL-950-DD	FG-3201F-BDL-950-DD	FG-3301E-BDL-950-DD	FG-3601E-BDL-950-DD	FG-3501F-BDL-950-DD
Bypass					
DC Power Variant	FG-3000F-DC-BDL-950-DD			FG-3600E-DC-BDL-950-DD	
Storage + DC Power Variant	FG-3001F-DC-BDL-950-DD				
Renewal					
Base	FC-10-F3K0F-950-02-DD	FC-10-F3K2F-950-02-DD	FC-10-F33HE-950-02-DD	FC-10-F3K6E-950-02-DD	FC-10-F3K5F-950-02-DD
Storage Variant	FC-10-F3K1F-950-02-DD	FC-10-F32F1-950-02-DD	FC-10-F33E1-950-02-DD	FC-10-F36E1-950-02-DD	FC-10-F35F1-950-02-DD
Bypass					
DC Power	FC-10-FD3K0-950-02-DD			FC-10-FD3K6-950-02-DD	
Storage + DC Power Variant	FC-10-FD3K1-950-02-DD				
Services					
FGT Cloud Management & Analytics (base)	FC-10-F3K0F-131-02-DD		FC-10-F33HE-131-02-DD	FC-10-F3K4E-131-02-DD	FC-10-F3K5F-131-02-DD
SDWAN-Underlay Monitoring Services (base)	FC-10-F3K0F-288-02-DD		FC-10-F33HE-288-02-DD	FC-10-F3K4E-288-02-DD	FC-10-F3K5F-288-02-DD
SDWAN Overlay-as-a-Service	FC-10-F3K0F-657-02-DD	FC-10-F3K2F-657-02-DD	FC-10-F33HE-657-02-DD	FC-10-F3K6E-657-02-DD	FC-10-F3K5F-657-02-DD
Licenses					
HyperScale	LIC-FG30F-HYPSC				LIC-FG35F-HYPSC
Carrier	FCR-EUPG		FCR-EUPG	FCR-EUPG	FCR-EUPG

HUB BUNDLES

FortiGate Unified Threat Protection	3700F	4200G	4400F	4800F
Base	FG-3700F-BDL-950-DD	FG-4200G-BDL-950-DD	FG-4400F-BDL-950-DD	FG-4800F-BDL-950-DD
Storage Variant	FG-3701F-BDL-950-DD	FG-4201F-BDL-950-DD	FG-4401F-BDL-950-DD	FG-4801F-BDL-950-DD
Bypass				
DC Power Variant		FG-4200G-DC-BDL-950-DD	FG-4400F-DC-BDL-950-DD	
Storage + DC Power Variant		FG-4201F-BDL-950-DD	FG-4401F-DC-BDL-950-DD	
Renewal				
Base	FC-10-F3K7F-950-02-DD	FC-10-F42HF-950-02-DD	FC-10-F44HF-950-02-DD	FC-10-F48HF-950-02-DD
Storage Variant	FC-10-F37F1-950-02-DD	FC-10-F421F-950-02-DD	FC-10-F441F-950-02-DD	FG-4801F-BDL-950-DD
Bypass				
DC Power		FC-10-D42HF-950-02-DD	FC-10-D44HF-950-02-DD	
Storage + DC Power Variant		FC-10-F421F-950-02-DD	FC-10-D441F-950-02-DD	
Services				
FGT Cloud Management & Analytics (base)	FC-10-F3K7F-131-02-DD			
SDWAN-Underlay Monitoring Services (base)	FC-10-F3K7F-288-02-DD	FC-10-F42HF-288-02-DD	FC-10-F44HF-288-02-DD	FC-10-F481F-288-02-DD
SDWAN Overlay-as-a-Service	FC-10-F3K7F-657-02-DD	FC-10-F42HF-657-02-DD	FC-10-F44HF-657-02-DD	FC-10-F48HF-657-02-DD
Licenses				
HyperScale		LIC-FG42F-HYPSC	LIC-FG44F-HYPSC	LIC-FG48F-HYPSC
Carrier	FCR-EUPG	FCR-EUPG	FCR-EUPG	FCR-EUPG

FORTIGATE VM: PRIVATE CLOUD SUPPORT MATRIX

	VMware VSphere	Citrix Xen	Xen	KVM	Microsoft Hyper-V	Nutanix AHV
FG-VM	☑	☑	☑	☑	☑	☑

FORTIGATE VM: PUBLIC CLOUD SUPPORT MATRIX

	Amazon AWS	Microsoft Azure	Oracle OCI / OPC	Google GCP	Alibaba AliCloud
FG-VM	☑ / #	☑ / #	☑ / #	☑ / #	☑ / #

- On-demand

PROFESSIONAL SERVICES PACKAGES

	Standalone Site	Hub and Spoke (Single DC)	Hub and Spoke with ZTP (Single DC)
SDWAN FortiGate Deployment QuickStart Service	FP-10-QSSDWAN-DP1-00-00	FP-10-QSSDWAN-DP2-00-00	FP-10-QSSDWAN-DP3-00-00

The QuickStart SD-WAN service is a consulting services that provides assistance for the deployment of a pre-defined FortiGate SD-WAN configuration into a customer's environment

FORTIMONITOR: SD-WAN SYNTHETIC TRANSACTION MONITORING (STM)

SOLUTION BUNDLE	SKU LICENSE	SD WAN STM BUNDLE
SD WAN STM Application Monitoring Retrieves NTT, SRT, DNS lookup time, HTTPS response time, and RTT against custome & OOTB applications across all SD WAN connections to measure application reachability & performance.	10-Pack	FC1-10-MNCLD-672-01-12
	25-Pack	FC2-10-MNCLD-672-01-12
	500-Pack	FC3-10-MNCLD-672-01-12
	2000-Pack	FC4-10-MNCLD-672-01-12
	10,000-Pack	FC5-10-MNCLD-672-01-12

FORTIMANAGER: CENTRALIZED MANAGEMENT PLATFORM

	200G	410G	1000G	3100G	3700G	Cloud	VM
Default Devices/VDOMs	30	150	1,000	4,000	10,000		10
Max Devices/VDOMs with add-on license				8,000	100,000	10,000	100,000
Default ADOMs	30	150	1,000	4000	10,000		Add-On
Max ADOMs with add-on license				8,000	12,000		1,200
Additional Services							
FortiAI Assistant Subscription ¹	✓	✓	✓	✓	✓		✓
FortiCare Premium Contract	✓	✓	✓	✓	✓	✓	✓
FortiCare Elite Contract	✓	✓	✓	✓	✓	No	✓ ²
Replacement Disks			✓	✓	✓		
How to Buy	Hardware Bundle	Hardware Bundle	Hardware Bundle	Hardware Bundle	Hardware Bundle	Multi-Device Subscription	VM Bundle/Subscription

¹ FortiAI Assistant Subscription requires FortiManager 7.6

² FortiCare Elite contract is available for FortiManager Perpetual VM models, not available for the VM subscription models.

FORTIMANAGER	200G	410G	1000G	3100G	3700G
Hardware	FMG-200G	FMG-410G	FMG-1000G	FMG-3100G	FMG-3700G
Support-only Renewal	FC-10-M200G-247-02-DD	FC-10-M41G-247-02-DD	FC-10-FM1KG-247-02-DD	FC-10-FM31G-247-02-DD	FC-10-M3K7G-247-02-DD
FortiAI Assistant Subscription	FC-10-M200G-1118-02-DD	FC-10-FM41G-1118-02-DD	FC-10-FM1KG-1118-02-DD	FC-10-FM31G-1118-02-DD	FC-10-M3K7G-1118-02-DD
Replacement Disks					
Replacement Disk SKU		SP-FAZ810G-HDD		SP-FAZ810G-HDD	SP-DAM37G4T
Replacement PSUs					
Replacement PSU SKU	SP-FAD400F-PS	SP-FAZ800G-PS		SP-FAZ3000G-PS	SP-FAZ3700F-PS

FORTIMANAGER VM

	10 Devices	100 Devices	1000 Devices		Description
Subscription Bundles	FC1-10-FMGVS-258-01-DD	FC2-10-FMGVS-258-01-DD	FC3-10-FMGVS-258-01-DD		All in one subscription bundle including FortiManager VM S-series and FortiCare Premium Contract. Fully stackable.
FortiAI Assistant Subscription	FC1-10-FMGVS-1118-01-DD	FC2-10-FMGVS-1118-01-DD	FC3-10-FMGVS-1118-01-DD		
FortiCare Elite Up-grade	FC1-10-FMGVS-204-01-DD	FC2-10-FMGVS-204-01-DD	FC3-10-FMGVS-204-01-DD		
	10 Devices	100 Devices	1000 Devices	5000 Devices	Description
Perpetual License	FMG-VM-10-UG	FMG-VM-100-UG	FMG-VM-1000-UG	FMG-VM-5000-UG	Purchase FortiCare Premium Contract or FortiCare Elite Contract separately.
FortiAI Assistant Subscription	FC1-10-M3004-1118-02-DD	FC2-10-M3004-1118-02-DD	FC4-10-M3004-1118-02-DD	FC5-10-M3004-1118-02-DD	
FortiCare Premium	FC1-10-M3004-248-02-DD	FC2-10-M3004-248-02-DD	FC4-10-M3004-248-02-DD	FC5-10-M3004-248-02-DD	
FortiCare Elite	FC1-10-M3004-285-02-DD	FC2-10-M3004-285-02-DD	FC4-10-M3004-285-02-DD	FC5-10-M3004-285-02-DD	
FortiCare Elite upgrade	FC1-10-M3004-204-02-DD	FC2-10-M3004-204-02-DD	FC4-10-M3004-204-02-DD	FC5-10-M3004-204-02-DD	

FORTIMANAGER CLOUD

	3 Devices	10 Devices	100 Devices	1000 Devices	Description
Multi-Device Subscription	FC0-10-MVCLD-227-01-DD	FC1-10-MVCLD-227-01-DD	FC2-10-MVCLD-227-01-DD	FC3-10-MVCLD-227-01-DD	FortiManager Cloud Central Management & Orchestration Service including FortiCare Premium Contract. Fully Stackable.

FORTIMANAGER VM: PRIVATE CLOUD SUPPORT

	VMware	Citrix Xen	KVM	Microsoft Hyper-V	Nutanix AHV	Oracle Private Cloud	OpenSource Xen
FMG-VM	✓	✓	✓	✓	✓	✓	✓

FORTIMANAGER VM: PUBLIC CLOUD SUPPORT

	Amazon AWS	Microsoft Azure	Google GCP	Oracle OCI / OPC
FMG-VM	✓	✓	✓	✓

CONSIDERATIONS FOR BRANCH AND HUB SELECTION

Selecting the Branch or HUB devices depends on multiple factors that are unique to each deployment. Speak with a Fortinet specialist for assistance selecting the right devices for your environment.

Below are the most common selection criteria and some commonly selected Hub devices, based on deployment sizes (for reference purposes only).

Branch Selection

- Security requirements
- Number of users
- Throughput
- Interface connectivity
- Wireless requirements
- Redundancy (WAN, Power, IPsec Tunnels, Device)

HUB Selection

- Security requirements
- IPsec throughput
- Total IPsec Tunnels
- Interface connectivity
- Redundancy (Ports, Device, Power, Intra-site)
- AC or DC Power

Hub Sizing Examples (Reference Only)

- Up to 500 Sites (400F-600F)
- Up to 2,000 Sites (1000F-1800F)
- Up to 5,000 Sites (2200E-2600F)
- Up to 10,000 Sites (3000F-3700F)
- Beyond 10,000+ Sites (3960E-4800F)

NSE TRAINING AND CERTIFICATION

FCSS - SD-WAN Training and Certification

Learn about common SD-WAN deployment scenarios using the Fortinet Secure SD-WAN solution. Explore different situations, from a single enterprise site to multiple data center environments, that will help you to enhance and troubleshoot SD-WAN deployments.

Course Description

For more information about prerequisites, agenda topics, and learning objectives, please refer to the course description at https://training.fortinet.com/local/staticpage/view.php?page=library_sd-wan.

Ordering Information

SKU	DESCRIPTION
FT-SD-WAN	Instructor-led Training - 4 days
FT-SD-WAN-LAB	On-demand Labs (self-paced)
NSE-EX-FTE2	Certification Exam

FREQUENTLY ASKED QUESTIONS

Is there an extra license to use SD-WAN with FortiGate?

No, SD-WAN is a feature included in FortiOS at no additional cost. Fortinet recommends purchasing security subscription services as necessary and utilizing a FortiManager for central management.

Are there any bandwidth licensing or restrictions?

Fortinet does not charge for bandwidth usage and you are free to use as much as the box will physically support.

Which FortiGate models can be utilized as a SD-WAN Hub?

Any FortiGate model can be utilized as an SD-WAN Hub or Branch. This guide provides guidance on Branch and Hub models based on common deployment use cases.

Why is "Maximum IPSec Tunnels" omitted for Branches?

IPSec phase1 interfaces have no hard limit and are only limited by system memory. Our tests have shown to support several hundred tunnels on even the smallest box but varies based on many factors.

How is Overlay-as-a-Service priced?

The licensing model is per-FortiGate device. This means that each FortiGate that participates in the SDWAN overlay region will need an individual device entitlement and registered to the same FortiCloud account. No other purchase or license is necessary. Upon activating the service from the OaaS portal, FortiGate HUB devices will be assigned and allocated for the SDWAN overlay region.

What is included in the SDWAN Underlay Bandwidth & Quality Monitoring Service?

The SDWAN Underlay Bandwidth & Quality Monitoring Service is a comprehensive suite of features, designed to monitor underlay and application performance. The service includes speed testing across Fortinet's global cloud network, FortiGuard database of Performance SLAs for SaaS and cloud monitoring, SDWAN setup guide and more. To learn more, view the solution overview: <https://www.fortinet.com/content/dam/fortinet/assets/solution-guides/sb-sd-wan-performance-monitoring.pdf>

How is the SDWAN Underlay Bandwidth & Quality Monitoring service priced? Is a FortiManager license required?

SDWAN Underlay Monitoring is licensed per-FortiGate and no additional licensing is required. FortiManager allows you to execute and monitor the speed test service from a remote FortiGate device with the proper license.

How is FortiMonitor Synthetic Transaction Monitoring (STM) priced?

A "Pack" refers to the total number of FortiGates that will integrate with FortiMonitor OnSight agents. Agents integrate with SD-WAN to monitor all available WAN underlay links. There is no licensing limits on the number of WAN underlay links to be monitored.

Example: 10-Pack includes 10 FortiGates, 25-Pack includes 25 FortiGates

How is "Threat Protection" measured and what does it include?

Threat Protection performance is measured with Firewall, IPS, Application Control, URL Filtering and Malware Protection enabled, Enterprise Mix traffic

What does the "Unified Threat Protection" license include?

The Unified Threat Protection license includes: IPS, Advanced Malware Protection, Application Control, Botnet DB, Mobile Malware, Outbreak Prevention, Web & Video Filtering, Cloud sandbox, Secure DNS filtering, AntiSpam Service, and 24x7 support.

For more information, please visit:

https://www.fortinet.com/content/dam/fortinet/assets/data-sheets/FortiGuard_Security_Services.pdf

Where could I find the maximum values for SD-WAN components, such as rules and performance SLAs?

The maximum system values for all FortiGates can be found here:

<https://docs.fortinet.com/max-value-table>

What do I need for Zero Touch Provisioning (ZTP)?

ZTP can be accomplished a number of different ways. For most deployments, we recommend purchasing FortiDeploy (FDP-SINGLE-US) with your purchase order. FortiDeploy will link the serial numbers in your order to your FortiCloud account. A FortiManager IP address can be assigned to your devices automatically so they retrieve their configuration automatically from the FortiManager of your choice.

Visit www.fortinet.com for more details

