Data Center Firewalls

Product Offerings

FortiGate Next-Generation Firewalls (NGFWs) protect hybrid data centers with dynamic segmentation and coordinated, automated AI/ML-powered FortiGuard services to enable speed and manage all security risks. They offer industry's fastest NGFW delivering up to 520 Gbps of threat protection with full visibility and ransomware protection. Powered by purpose-built security processing units, they consolidate tens of millions connections per second and up to 1.9 Tbps firewall performance. This enables you to scale your business to meet escalating user demands.

APPLIANCES	1800F	2600F	3000F	3500F	3700F	4200F	4400F	6300F	6500F	7121F
Data Center Firewall										
IPS Throughput	17 Gbps	24 Gbps	36 Gbps	72 Gbps	86 Gbps	52 Gbps	94 Gbps	110 Gbps	170 Gbps	675 Gbps
SSL Inspection Throughput	12 Gbps	20 Gbps	29 Gbps	63 Gbps	55 Gbps	50 Gbps	86 Gbps	66 Gbps	110 Gbps	540 Gbps
IPsec VPN Throughput	55 Gbps	55 Gbps	105 Gbps	165 Gbps	160 Gbps	210 Gbps	310 Gbps	96 Gbps	160 Gbps	630 Gbps
Hardware/Connectivity										
400G				✓						✓
100G		✓	✓	✓	✓	✓	✓	✓	✓	✓
40G	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
25G	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
10G	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ultra Low Latency Port (ULL)				✓						
With Storage	1801F	2601F	3001F	3501F	3701F	4201F	4401F	6301F	6501F	7121F
Variant Available	DC	DC		-		DC	DC	DC	DC	DC
Other Metrics										
Firewall Throughput (1518 byte)	198 Gbps	198 Gbps	397 Gbps	595 Gbps	589 Gbps	800 Gbps	1.15 Tbps	239 Gbps	239 Gbps	1.89 Tbps
New Sessions/Second	750,000	1 M	870,000	1 M	930,000	1 M	1 M	2 M	3 M	9 M
Threat Protection Throughput	9.1 Gbps	17 Gbps	33 Gbps	63 Gbps	75 Gbps	45 Gbps	75 Gbps	60 Gbps	100 Gbps	520 Gbps
Virtual Domains (Default/Max)	10/250	10/500	10/500	10/500	10/500	10/500	10/500	10/500	10/500	10/500
Other Licenses										
HyperScale	✓	✓	✓	✓		✓	✓			
Carrier			✓	✓	✓	✓	✓	✓	✓	✓

ORDER INFORMATION

FORTIGATE	1800F	2600F	3000F	3500F	3700F	4200F	4400F	6300F	6500F	7121F
Advanced Threat Protection Bundle										
Hardware Bundle	FG-1800F	FG-2600F	FG-3000F	FG-3500F	FG-3700F	FG-4200F	FG-4400F	FG-6300F	FG-6500F	FG-7121F
Services Bundle	FC-10-F18HF-928-02-DD	FC-10-F26HF-928-02-DD	FC-10-F3K0F-928-02-DD	FC-10-F3K5F-928-02-DD	FC-10-F3K7F-928-02-DD	FC-10-F42HF-928-02-DD	FC-10-F44HF-928-02-DD	FC-10-6K30F-928-02-DD	FC-10-6K50F-928-02-DD	FC-10-F7CF1-928-02-DD
UTP Bundle										
Hardware Bundle	FG-1800F-BDL-950-DD	FG-2600F-BDL-950-DD	FG-3000F-BDL-950-DD	FG-3500F-BDL-950-DD	FG-3700F-BDL-950-DD	FG-4200F-BDL-950-DD	FG-4400F-BDL-950-DD	FG-6300F-BDL-950-DD	FG-6500F-BDL-950-DD	FG-7121F-BDL-950-DD
Renewal	FC-10-F18HF-950-02-DD	FC-10-F26HF-950-02-DD	FC-10-F3K0F-950-02-DD	FC-10-F3K5F-950-02-DD	FC-10-F3K7F-950-02-DD	FC-10-F42HF-950-02-DD	FC-10-F44HF-950-02-DD	FC-10-6K30F-950-02-DD	FC-10-6K50F-950-02-DD	FC-10-F7CF1-950-02-DD
MOST COMMONLY BOUGHT TOGETHER										
Licenses										
HyperScale	LIC-FGT-HYPSC	LIC-FGT-HYPSC	LIC-FGT-HYPSC	LIC-FGT-HYPSC		LIC-FGT-HYPSC	LIC-FGT-HYPSC			
Carrier			FCR-EUPG	FCR-EUPG	FCR-EUPG	FCR-EUPG	FCR-EUPG			FCR-EUPG

CONSIDERATIONS FOR NEXT GEN DATACENTRE FW SELECTION

- Security requirements
- Throughput
- Interface connectivity
- Redundancy from Disaster recovery
- Interconnect features like IPsec VPN

FREQUENTLY ASKED QUESTIONS

What are typical licenses for customer deployments with Next Gen Datacenter with FortiGates?
Most customer use cases are covered comprehensively by Advanced Threat Protect bundle and the UTP bundle which provides extensive coverage for Device, Content and Web based threats.
For more information, please visit: https://www.fortinet.com/content/dam/fortinet/assets/data-sheets/FortiGuard_Security_Services.pdf.

How is "Threat Protection" measured and what does it include?
Threat Protection performance is measured with Firewall, IPS, Application Control and Malware Protection, and logging enabled.

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 24×7 support.
For more information, please visit: https://www.fortinet.com/content/dam/fortinet/assets/data-sheets/FortiGuard_Security_Services.pdf.

Do I need a license for HA deployments?
All members of HA cluster need to have valid Support contracts and valid licenses for FortiGuard services. It is not sufficient to only have coverage for the Master unit.
Support Contract:
All units needs to have valid support contract in order to be able open a support ticket against a specific device.
FortiGuard services:
You must register and license all of the units in a cluster for all required FortiGuard services, both because all cluster units communicate with the FDN and because any cluster unit could potentially become the primary unit.

Where can I find out what transceivers are supported?
Each FortiGate datasheet has a list of transceivers supported by the model typically at the end of the datasheet under the Ordering information section.

How easily can I migrate from either a Third party device to Fortinet or migrate from my old FortiGate to a newer FortiGate?
FortiConverter Service provides hassle-free migration to help organizations transition from a wide range of legacy firewalls to FortiGate Next-Generation Firewalls quickly and easily. This one-time service eliminates errors and redundancy by employing best practices with advanced methodologies and automated processes. Organizations can accelerate their network protection with the latest FortiOS technology.
FortiConverter service is also part of the Enterprise Bundle and can be also bought as an ala carte SKU. As an example when migrating to a new FortiGate-80F, FortiConverter Service can be added as an ala carte SKU which is like the below. The "189" highlighted in red in the middle denotes the ala carte FortiConverter service SKU.

FC-10-F80FP-189-02-DD	FortiConverter Service for one time configuration conversion service

What is the Hyperscale License and what does it do?
The FortiGate Hyperscale license allows customers to accelerate Carrier Grade NAT (CGNAT) features directly in Fortinet's latest SPU NP7. This license is primarily for service providers wanting to provide ultra high scale CGNAT service. More information refer to:
https://docs.fortinet.com/document/fortigate/7.0.6/hyperscale-firewall-guide/941439/whats-new

What is the FortiCarrier License and what does it do?
The FortiCarrier license allows customers to apply inspection and content checking to GPRS Tunneling Protocol (GTP) as it passes through carrier networks as well as Packet Forwarding Control Protocol (PFCP). The FortiCarrier license also allows the FortiGate to act as an SCTP firewall. For more information refer to :
https://docs.fortinet.com/document/fortigate/7.2.0/fortios-carrier/899244/fortios-carrier

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