

Introducing FortiGate® 6000F Series



Fortinet's 6000F series of next-generation firewalls deliver the highest threat protection performance in a compact appliance form-factor to meet the most demanding network security needs

Given the new realities of today's modern enterprise – extension to the cloud, more traffic volumes, and growing numbers of connected users, devices, and IoT – enterprises are under immense pressure to balance end-user experience with data protection. With digital attack surfaces expanding, network security at the enterprise edge must deliver advanced protection against the latest cyber threats across all forms of network traffic, including growing amounts of encrypted traffic. With data center consolidation underway, there is an increasing emphasis on high performance, scale and capacity in increasingly smaller physical footprints, and network security is no exception.

The Fortinet FortiGate 6000F series is a new class of ultra-high performance, compact NGFW appliances that are easy to manage, while delivering the highest levels of threat protection and SSL inspection to protect enterprises against advanced cyber threats. Designed for high-speed edge and data center networks where security must be applied at speeds approaching 100Gbps, the 6000F series easily inspects encrypted traffic and applies advanced protection at wire speeds.

The 6000F utilizes the next generation of Fortinet Distribution Processors (DP3) for the first time in an appliance form factor. This new load balancing architecture eliminates bottlenecks introduced by traditional NGFW packet processing approaches, allowing the 6000F to support exponentially increasing endpoint connections without imposing performance penalties.



Security Fabric Integration

FortiGate appliances, interconnected with the Fortinet Security Fabric, form the backbone of the Fortinet Enterprise Solution.



FG-6300F*
FG-6301F

239 Gbps /100 Million
Firewall / Concurrent Sessions



70 Gbps
SSL Inspection



80 Gbps
NGFW



60 Gbps
Threat Protection

FG-6500F*
FG-6501F

239 Gbps /170 Million
Firewall / Concurrent Sessions

130 Gbps
SSL Inspection

140 Gbps
NGFW

100 Gbps
Threat Protection

* Target performance, subject to final values. FG-6301F/6501F come with 2TB NVMe disks



Deployment Modes

Next Generation Firewall
Internal Segmentation Firewall
Data Center Firewall



Highlights

- Delivers the industry's fastest NGFW with unprecedented Threat Protection and SSL inspection performance in a compact 3U appliance.
- New hardware architecture with management and dataplane separation has a dedicated CPU for management functionality with purpose build SPUs dedicated to traffic processing.
- With uplinks in typical datacenter designs moving to 100Gbe, the 25/100G combination provides superior flexibility and reduction in port and cable costs.
- Management interface redundancy and hot swappable/redundant power supplies.



Hardware Acceleration

SPU DP3, NP6 and CP9



4 x 100/40GE QSFP28, 24 x 25/10GE SFP28, ,
2 x 10GE SFP+ HA ports, 2 x Management GE
RJ45 and 1x Management 10GE SFP+



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