

# SANGFOR NGAF M6000-F-I

Sangfor Next Generation Application Firewall is the world first fully integrated NGFW + NGWAF with pre-event, during-event and post-event defense for all business assets.

A truly integrated firewall solution, providing holistic overview of the entire organization security network, with ease of management for administration, operation and maintenance.

NGAF M6000-F-I is the ideal Converged Security solution for large enterprise and data center deployment.

Gartner

ICSA labs  
CERTIFIED FIREWALL - CORPORATE

Sangfor Technologies

AAA

Enterprise Firewall  
February 2021

Cyber Ratings



All Pictures shown are for illustration purpose only. Actual Product may vary.

Performance & Capacity	NGAF M6000-F-I
Dimension	2U
Firewall Throughput	140Gbps
NGFW Throughput <sup>1</sup>	84Gbps
WAF Throughput	84Gbps
IPS & WAF Throughput	56Gbps
Threat Protection Throughput <sup>2</sup>	67.2Gbps
IPSec VPN Throughput	5Gbps
Max IPSec VPN Tunnels	10,000
Concurrent Connections (TCP)	16,000,000
New Connections (TCP)	600,000
Power Redundancy	Supported
Compliance	NGAF M6000-F-I
Certifications	CE, FCC

Hardware Specifications	NGAF M6000-F-I
RAM	32GB
Storage HD Capacity <sup>3</sup>	128GB SSD + 960G SSD
Power [Watt] Max	760W
Operating Temperature	0 - 45°C
Humidity	5% - 90%, non-condensing
System Weight	20.00 Kg
System Dimensions (L * W * H, mm)	600 x 440 x 90

Network Interfaces	NGAF M6000-F-I
Bypass (Copper)	4 pairs
10/100/1000 Base-T	8
SFP	8
10G Fiber SFP	4
Network Modules (Total/Available)	6/2
Optional Interface	Per network module can add one of the NICs below: ①. 4x GE RJ45 ⑤. 4x GE RJ45 & 4x GE SFP ②. 4x GE SFP ⑥. 2x 10GE SFP+ ③. 8x GE RJ45 ⑦. 4x 10GE SFP+ ④. 8x GE SFP ⑧. 2x 40GE QSFP
Serial Port	1 x RJ45
USB Port	2

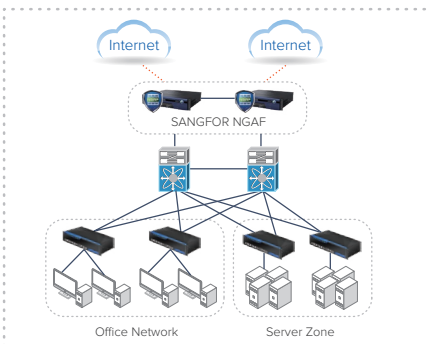
<sup>1</sup> NGFW is measured with Firewall, Bandwidth Management, IPS, Application Control

<sup>2</sup> Threat Prevention is measured with Firewall, Bandwidth Management IPS, Application Control, Anti Virus

<sup>3</sup> Other storage options; 64GB SSD + 2TB SATA

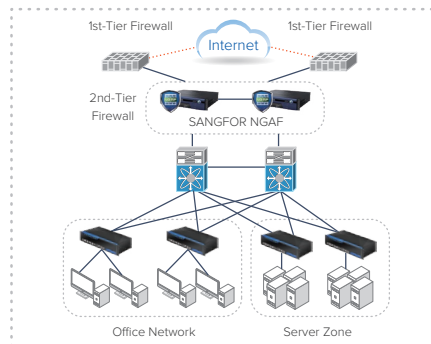


## Deployment Modes



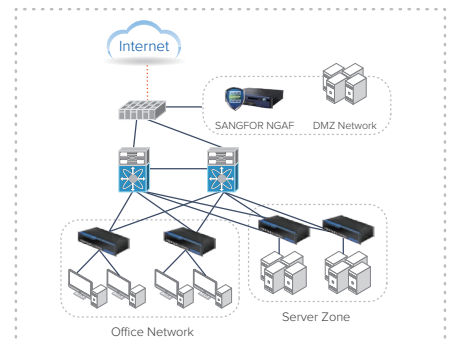
### End-to-End Protection

- End-to-end protection from endpoint to business system
- Total visibility of the entire organization security status
- Provides High Availability features with Multi-line HA and Load Balancing
- Proactive early detection and prevention at the gateway to prevent attacks from reaching the network



### Double Security (2nd-Tier Firewall)

- Double protection which complement existing firewall security policies to ensure full protection
- Providing regulatory compliance
- Simplified deployment, reducing downtime
- Provides flexibility of security design and security policies for different business requirements



### DMZ Protection

- Dedicated business system protection for advance protection, without impacting other networks
- Providing regulatory compliance
- Simplified deployment, reducing downtime
- Minimize operation and maintenance works to monitor and troubleshoot security incidents

## Key Features

## Software Features

### 1 Lower TCO Converged Security Solutions

Fully converged security solution from endpoint to business systems, without the needs of manual integration & consolidation of each feature, as well as additional hardware, which results in lower operational and maintenance costs.

### 2 Comprehensive Business Systems Protection

Comprehensive business systems protection with built-in Web Application Firewall and Vulnerability Scanners, which is critical for internal systems as well as "internet-facing" systems. Business systems protection is easily enabled via advanced license, without any integration or additional appliance required.

### 3 User Friendly

A single simplified operation & maintenance with interactive GUI, which provides ease of configuration, maintenance, troubleshooting and reporting for IT managers, administrators and operations team.



#### Networking

**Interface:** Physical Interface, Sub Interface, VLAN Interface, Aggregated Interface

**Routing:** Static, Policy-based, RIP, OSPF, BGP

**Network Functions:** ARP, DNS, DHCP, SNMP, NAT, High Availability



#### Access Control

**User:** Import / export from external server

**Authentication:** SSO/LDAP/RADIUS

**Application:** ACL and application rules

**URL Filter:** Supported



#### VPN

SANGFOR VPN, IPSEC VPN and SSL VPN supported  
SDWAN auto path selection



#### Management

SNMP v1, v2c, v3

Syslog

Real-Time Vulnerability Scanner

Central management

## Security Features

### 1 Converged Security

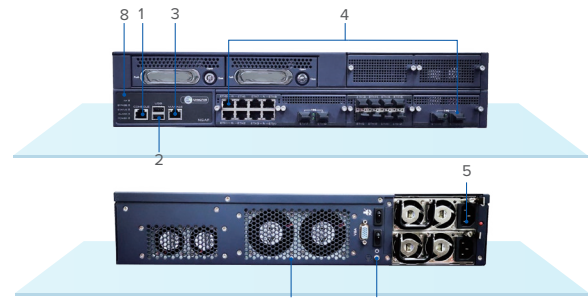
Integrated L2-L7 Security features:

- DoS/DDoS: Inbound, Outbound, Attack Protection
- Content Security
- IPS
- Anti-virus
- Engine Zero: AI based anti-malware, anti-virus
- APT
- WAF
- Data Leakage Prevention
- Bandwidth Management
- Real-Time Vulnerability Scanner
- Security Reporter
- Neural-X: Cloud threat intelligence and analytics

### 2 Comprehensive WAF

- Web Application Firewall (WAF)
- Semantic Engine
- Support OWASP Top 10 WAF requirements
- Recommended by NSS

## Hardware Description



1. Management Console
2. USB ports
3. Default Interface

4. Line Interface
5. Power outlet
6. Switch

7. Fan Trays
8. LED Indicators

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## NGAF M6000-F-I Ordering Guide

\* All bundles are offered in 1, 2, 3 or 5 year increments

Sangfor NGAF Bundle Subscription	
SKU	Description
ESS-60-1/2/3/5Y	M6000-F-I, Essential Bundle (30 SSL VPN license, Site-to-Site IPsec VPN, FW, BM, URL filtering, Application Control, IPS, Email Security, Risk Assessment, Security Visibility, Basic Security Reporter)
PM-60-1/2/3/5Y	M6000-F-I, Premium Bundle(30 SSL VPN license, Site-to-Site IPsec VPN, FW, BM, URL filtering, Application Control, IPS, Email Security, Risk Assessment, Security Visibility, Basic Security Reporter, Engine Zero, Neural-X)
ULT-60-1/2/3/5Y	M6000-F-I, Ultimate Bundle including Premium Bundle(30 SSL VPN license, Site-to-Site IPsec VPN, FW, BM, URL filtering, Application Control, IPS, Email Security, Risk Assessment, Security Visibility, Basic Security Reporter, Engine Zero, Neural-X) & Platform-X (NGAF & Endpoint Secure Management, Event Correlation & Response, Security Posture Reporting) & Incident Response (2 times per annum) & Complimentary 30 units of Endpoint Secure Protect Agents (Limited Time Offer)
"A La Carte" Subscription License	
SKU	Description
FNX60-1/2/3/5Y	M6000-F-I, Neural-X License, Threat Intelligence & Analytics, Unknown Threat & Advanced Threat Defense, Value-Added Cloud Service
FEZ60-1/2/3/5Y	M6000-F-I, Engine Zero License, AI powered Malware Detection, Anti-malware, Anti-virus
WAF60-1/2/3/5Y	M6000-F-I, Add Anti-Defacement Module, Web Application FW, Application Hiding, HTTP Anomalies Detection, Data Leak Protection, Web Scanner, Vulnerability Scanner, Advanced Security Reporter
Sangfor Support Services	
SKU	Description
STS60-1/2/3/5Y	M6000-F-I, NGAF Software Upgrade, 24*7 Technical Support Services
HRTF60-1/2/3/5Y	M6000-F-I, NGAF, Return to Factory (5 Business days ship after receipt)
HSDS-60-1/2/3/5Y	M6000-F-I, NGAF, SDS Hardware Service
HNBD-60-1/2/3/5Y	M6000-F-I, NGAF, NBD Hardware Service
H244G-60-1/2/3/5Y	M6000-F-I, 24x7x4 Delivery Hardware Service

For more information on Sangfor' full range of support & services, please contact your local representative.

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