

# SANGFOR NGAF

## M5500-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 M5500-F-I is the ideal Converged Security solution for medium enterprise and data center deployment.



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

Performance & Capacity	NGAF M5500-F-I
Dimension	2U
Firewall Throughput	25Gbps
NGFW Throughput <sup>1</sup>	12.6Gbps
WAF Throughput	12.6Gbps
IPS & WAF Throughput	8.4Gbps
Threat Protection Throughput <sup>2</sup>	9.1Gbps
IPSec VPN Throughput	2Gbps
Max IPSec VPN Tunnels	3,000
Concurrent Connections (TCP)	3,000,000
New Connections (TCP)	220,000
Power Redundancy	Supported

Compliance	NGAF M5500-F-I
Certifications	CE, FCC

<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 + 960G SSD, 64GB SSD + 2TB SATA

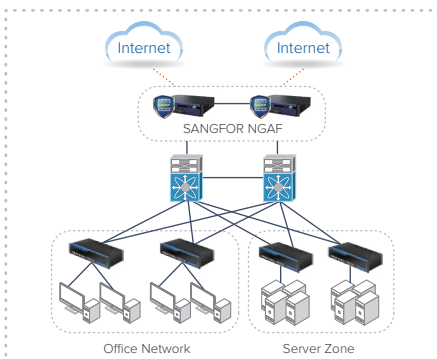


Hardware Specifications	NGAF M5500-F-I
RAM	8GB
Storage HD Capacity <sup>3</sup>	128GB SSD + 480G SSD
Power [Watt] Max	150W
Operating Temperature	0 - 45°C
Humidity	5% - 90%, non-condensing
System Weight	12.95 Kg
System Dimensions (L* W * H, mm)	600 x 440 x 90

Network Interfaces	NGAF M5500-F-I
Bypass (Copper)	3 pairs
10/100/1000 Base-T	6
SFP	4
10G Fiber SFP	2
Network Modules (Total/Available)	2/1

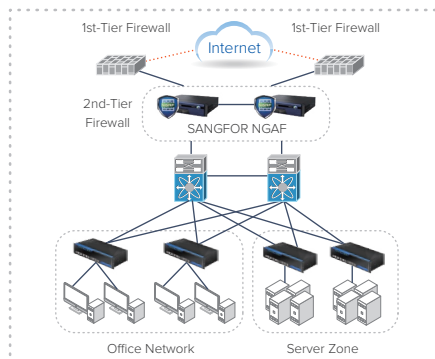
Optional Interface	Per network module can add one of the NICs below: ①. 2 x GE RJ45      ⑦. 2 x GE RJ45 & 2 x GE SFP ②. 2 x GE SFP      ⑧. 4 x GE RJ45 & 4 x GE SFP ③. 4 x GE RJ45      ⑨. 2 x 10GE SFP+ ④. 4 x GE SFP      ⑩. 4 x 10GE SFP+ ⑤. 8 x GE RJ45      ⑪. 2 x 40GE QSFP+ ⑥. 8 x GE SFP
Serial Port	1 x RJ45
USB Port	2

### Deployment Modes



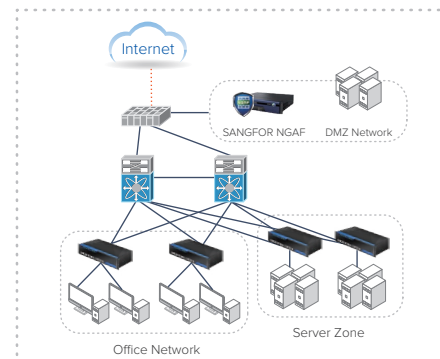
#### End-to-End Protection

- 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



SANGFOR TECHNOLOGIES INC.

sales@sangfor.com  
www.sangfor.com

Make IT Simpler,  
More Secure and Valuable

## 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

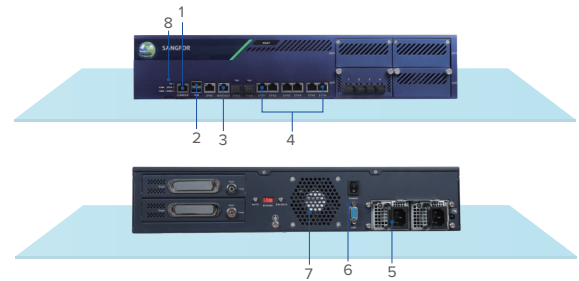
Integrated L2-L7 Security features:

- 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

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

## NGAF M5500-F-I Ordering Guide

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

### Sangfor NGAF Bundle Subscription

SKU	Description
ESS-55-1/2/3/5Y	M5500-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-55-1/2/3/5Y	M5500-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-55-1/2/3/5Y	M5500-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
FNX55-1/2/3/5Y	M5500-F-I, Neural-X License, Threat Intelligence & Analytics, Unknown Threat & Advanced Threat Defense, Value-Added Cloud Service
FEZ55-1/2/3/5Y	M5500-F-I, Engine Zero License, AI powered Malware Detection, Anti-malware, Anti-virus
WAF55-1/2/3/5Y	M5500-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
STS55-1/2/3/5Y	M5500-F-I, NGAF Software Upgrade, 24*7 Technical Support Services
HRTF55-1/2/3/5Y	M5500-F-I, NGAF, Return to Factory (5 Business days ship after receipt)
HSDS-55-1/2/3/5Y	M5500-F-I, NGAF, SDS Hardware Service
HNBD-55-1/2/3/5Y	M5500-F-I, NGAF, NBD Hardware Service
H244G-55-1/2/3/5Y	M5500-F-I, 24x7x4 Delivery Hardware Service

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

NGAF\_DS\_P\_NGAF55-Datasheet\_20230719