

# SANGFOR NGAF

## M5500-F-I

Sangfor Next Generation Application Firewall is the world first fully integrated NGFW + WAF 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-5500 is the ideal Converged Security solution for Small & Medium Enterprises. It is also ideal for Medium - Large Branch Deployment.

Gartner

ICSA labs  
CERTIFIED FIREWALL - CORPORATE



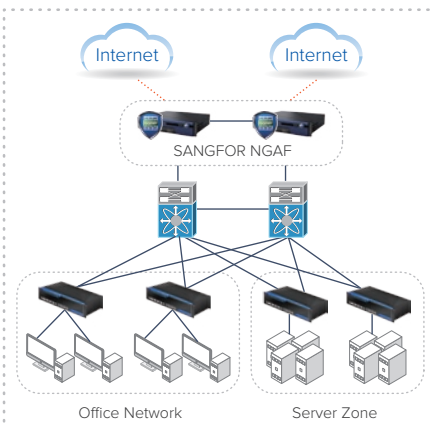
Performance & Capacity	NGAF M5500-F-I
Dimension	2U
Firewall Throughput	14Gbps
NGFW Throughput <sup>1</sup>	10.5Gbps
WAF Throughput	10.5Gbps
IPS & WAF Throughput	8.4Gbps
Threat Protection Throughput <sup>2</sup>	8.4Gbps
IPSec VPN Throughput	2Gbps
Max IPSec VPN Tunnels	3,000
Concurrent Connections (TCP)	3,000,000
New Connections (TCP)	220,000
Power Redundancy	Supported
Compliance	NGAF M5500-F-I
Certifications	CE, FCC

Hardware Specifications	NGAF M5500-F-I
RAM	4Gb
Storage HD Capacity	1TB (Customizable up to 2T)
Power [Watt] Max	300W
Operating Temperature	0°C~40°C
Humidity	5%~95% non-condensing
System Weight	20.00 Kg
System Dimensions	440x500x90 mm (W x L x H)
Network Interfaces	NGAF M5500-F-I
Bypass (Copper)	3 pair
10/100/1000 Base-T	8
SFP	2
10G Fiber SFP	N/A
Optional Interface & 10G Fiber SFP*	4*1GbE BASE-T/4*1GbE SFP/8*1GbE BASE-T/8*1GbE SFP/4*1GbE BASE-T with 4*1GbE SFP/2*10GbE SFP+/4 *10GbE SFP+
Serial Port	1 x RJ45
USB Port	2

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

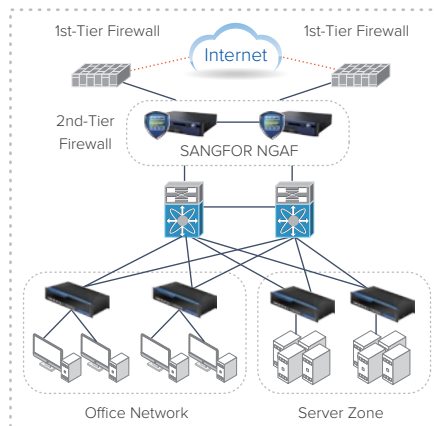
<sup>2</sup> Threat Prevention is measured with Firewall, Bandwidth Management IPS, Application Control, Anti Virus

### Deployment Modes



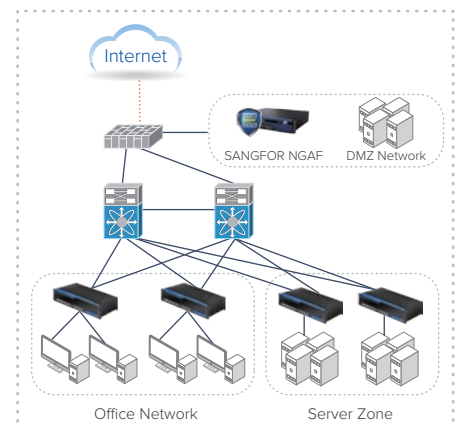
#### End-to-End Protection

- 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

### 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.

## 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
- Web Scanner
- 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.

## Software Features



### 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

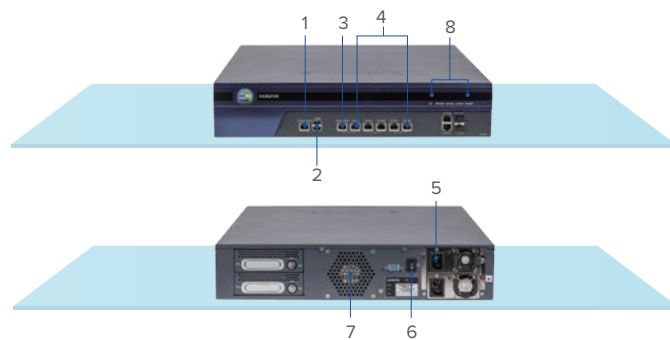
SNMP v1, v2c, v3

Syslog

Real-Time Vulnerability Scanner

Central management

## 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

## NGAF M5500-F-I Ordering Guide

### DESCRIPTION

#### NGAF Hardware & Base Software (Mandatory)

M5500-F-I, Hardware, SSL VPN for 30 concurrent users, Site-to-site IPsec VPN with 10 IPsec Clients included.

#### NGAF Hardware & Base Software (Mandatory)

M5500-F-I, NGFW license suite, FW, BM, IPS, URL&APP, Email Security, Sandboxing, Risk Assessment, Security Visibility, Basic security reporter: 1 year, 3 years or 5 years options.

#### NGAF-Add Advanced Business System Total Protection License (Optional)

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 : 1 year, 3 years or 5 years options.

#### NGAF Software Module, Service Subscription (Optional)

Engine Zero, Neural-X, Security Butler, 1 year, 3 years or 5 years options.  
IPSec VPN Remote Client, IPSec VPN Remote Client , 1 User

#### NGAF-NGFW Software Upgrade, 24\*7 Technical Support, NGAF RTF (Return to Factory), Hardware Service (Mandatory)

M5500-F-I, NGFW software upgrade, 24\*7 technical support, NGAF RTF hardware service : 1 year, 3 years or 5 years options.

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

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