

# SANGFOR NGAF

## M5100-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-5100 is the ideal Converged Security solution for Small Enterprises. It is also ideal for Branch Deployment.

Gartner

ICSA labs  
CERTIFIED FIREWALL - CORPORATE

Sangfor Technologies

AAA

Enterprise Firewall  
February 2021

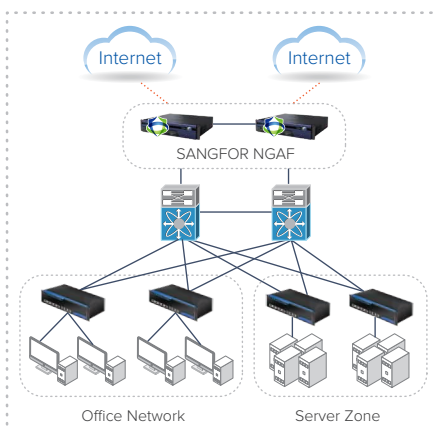
Cyber Ratings

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

Performance & Capacity	NGAF M5100-F-I	Hardware Specifications	NGAF M5100-F-I
Generation # <sup>1</sup>	2	RAM	4GB
Dimension	1U	Storage HD Capacity	64G SSD
Firewall Throughput <sup>2,3</sup>	2.8Gbps	Power [Watt] Max	40W
NGFW Throughput <sup>2,4</sup>	2.5Gbps	Operating Temperature	0°C ~ 45°C
WAF Throughput <sup>2</sup>	2.5Gbps	Humidity	5% ~ 90% non-condensing
IPS & WAF Throughput <sup>2</sup>	1.4Gbps	System Weight	3.85 Kg
Threat Protection Throughput <sup>2,5</sup>	1.8Gbps	System Dimensions (L x W x H, mm)	300 x 430 x 45
IPSec VPN Throughput <sup>2</sup>	250Mbps		
Max IPSec VPN Tunnels	300		
Concurrent Connections (TCP)	750,000		
New Connections (TCP)	20,000		
Dual Power Supply	N/A		
Compliance	NGAF M5100-F-I	Network Interfaces	NGAF M5100-F-I
Certifications	CE, FCC	Bypass (Copper)	1 pair
		10/100/1000 Base-T	6
		SFP	N/A
		10G Fiber SFP+	N/A
		Network Modules (Total/Available)	1/1
		Optional Interface <sup>6</sup>	Per network module can add one of the NIC card below: 1). 2 x GE RJ45    6). 8 x GE SFP 2). 2 x GE SFP    7). 2 x GE RJ45 & 2 x 3). 4 x GE RJ45    GE SFP 4). 4 x GE SFP    8). 4 x GE RJ45 & 4 x 5). 8 x GE RJ45    GE SFP
		Serial Port	1 x RJ45
		USB Port	2

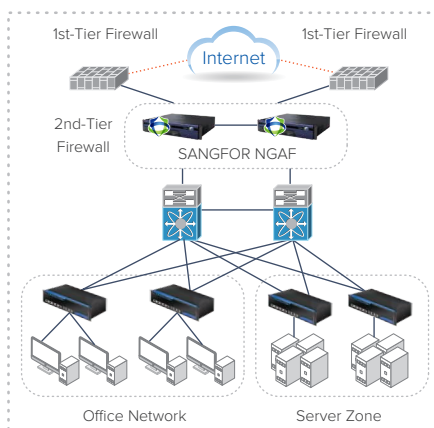
1. Generation #2 of M5100-F-I accepts orders from June 2022. This new generation of hardware brings changes, including better performance, flexible interface options, and better stability.
2. All throughput performance data is measured in the laboratory environment. The real-world performance may vary depending on the configuration & network environment.
3. Firewall Throughput is measured with 1518 Bytes UDP packets.
4. NGFW Throughput is measured with Firewall, Application Control, Bandwidth Management and IPS enabled.
5. Threat Prevention Throughput is measured with Firewall, Application Control, Bandwidth Management IPS, and Anti-Virus enabled.
6. If you need the optional NIC card not listed, please consult with Sangfor local sales representatives.

### Deployment Modes



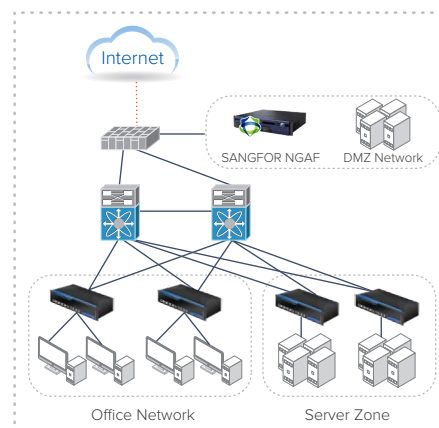
#### End-to-End Protection

- 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
- 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

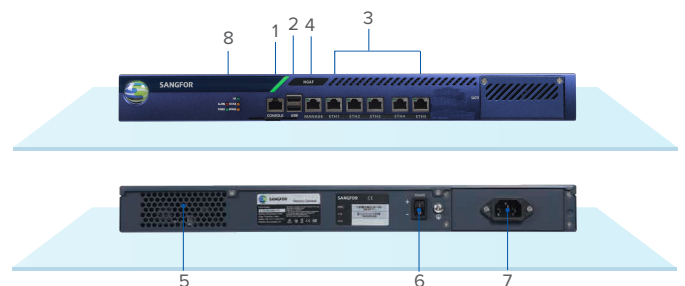
SNMP v1, v2c, v3

Syslog

Real-Time Vulnerability Scanner

Central management

## Hardware Description



- |                      |                         |                   |
|----------------------|-------------------------|-------------------|
| 1. Console Interface | 4. Management Interface | 7. Power outlet   |
| 2. USB ports         | 5. Fan Trays            | 8. LED Indicators |
| 3. Line Interface    | 6. Switch               |                   |

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

## NGAF M5100-F-I Ordering Guide

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

Sangfor NGAF Bundle Subscription	
SKU	Description
ESS-51-1/2/3/5Y	M5100-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-51-1/2/3/5Y	M5100-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-51-1/2/3/5Y	M5100-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
FNX51-1/2/3/5Y	M5100-F-I, Neural-X License, Threat Intelligence & Analytics, Unknown Threat & Advanced Threat Defense, Value-Added Cloud Service
FEZ51-1/2/3/5Y	M5100-F-I, Engine Zero License, AI powered Malware Detection, Anti-malware, Anti-virus
WAF51-1/2/3/5Y	M5100-F-I, Add Anti-Defacement Module, Web Application FW, Application Hiding, HTTP Anomalies Detection, Data Leak Protection, Web Scanner, Vulnerability Scanner, Advanced Security Reporter
Hardware Support Services	
SKU	Description
STS51-1/2/3/5Y	M5100-F-I, NGAF Software Upgrade, 24*7 Technical Support Services
HRTF51-1/2/3/5Y	M5100-F-I, NGAF, Return to Factory (5 Business days ship after receipt)
HSDS-51-1/2/3/5Y	M5100-F-I, NGAF, SDS Hardware Service
HNBD-51-1/2/3/5Y	M5100-F-I, NGAF, NBD Hardware Service
H244G-51-1/2/3/5Y	M5100-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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