

SANGFOR NGAF

M5100-F-I

Gartner

ICSA labs
CERTIFIED FIREWALL - CORPORATE

Sangfor Technologies

AAA

Enterprise Firewall
February 2021
Cyber Ratings

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.



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

Performance & Capacity	NGAF M5100-F-I
Generation # ¹	2
Dimension	1U
Firewall Throughput ^{2,3}	2.8Gbps
NGFW Throughput ^{2,4}	2.5Gbps
WAF Throughput ²	2.5Gbps
IPS & WAF Throughput ²	1.4Gbps
Threat Protection Throughput ^{2,5}	1.8Gbps
IPSec VPN Throughput ²	250Mbps
Max IPSec VPN Tunnels	300
Concurrent Connections (TCP)	750,000
New Connections (TCP)	20,000
Dual Power Supply	N/A

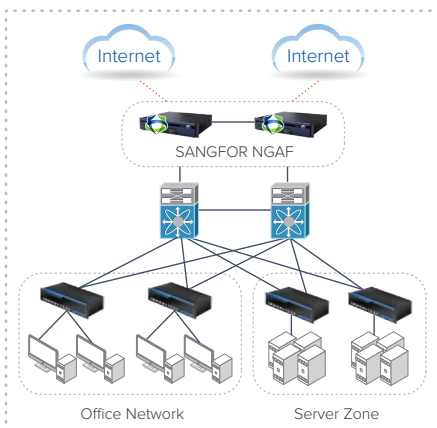
Compliance	NGAF M5100-F-I
Certifications	CE, FCC

Hardware Specifications	NGAF M5100-F-I
RAM	4GB
Storage HD Capacity	64G SSD
Power [Watt] Max	40W
Operating Temperature	0°C ~ 45°C
Humidity	5% ~ 90% non-condensing
System Weight	3.85 Kg
System Dimensions (L x W x H, mm)	300 x 430 x 45

Network Interfaces	NGAF M5100-F-I
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 ⁶	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 GE SFP 3). 4 x GE RJ45 8). 4 x GE RJ45 & 4 x GE SFP 4). 4 x GE SFP 5). 8 x GE RJ45
Serial Port	1 x RJ45
USB Port	2

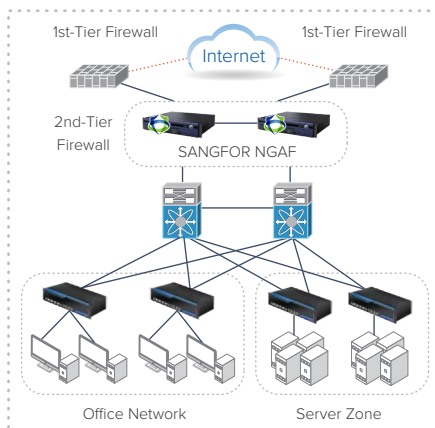
1. Generation #2 of M5100-F-I accepts orders from June 2022. This new generation of hardware brings changes, including better performance, flexible interface options, and better stability.
2. All throughput performance data is measured in the laboratory environment. The real-world performance may vary 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



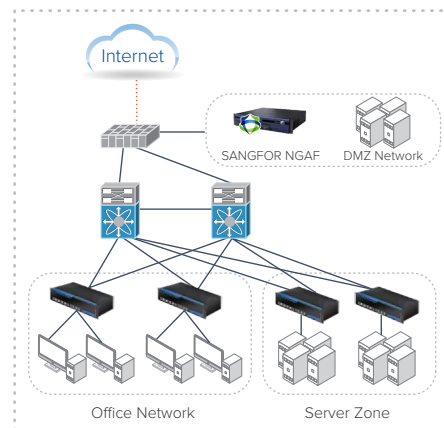
End-to-End Protection

- 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

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

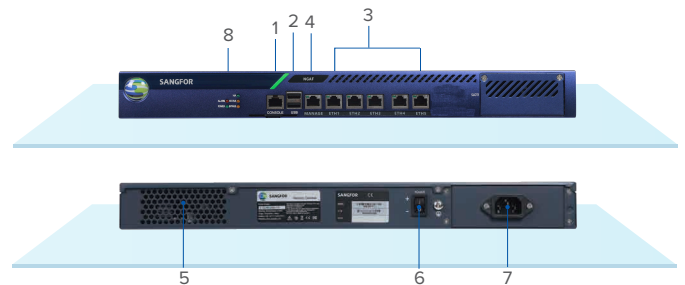
Integrated L2–L7 Security features:

- 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. 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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Simpler and Secure