SANGFOR NGAF
M5800-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 M5800-F-I is the ideal Converged Security solution for medium to large enterprise and data center deployment.

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

Performance & Capacity	NGAF M5800-F-I
Dimension	2U
Firewall Throughput	67Gbps
NGFW Throughput [1]	31Gbps
WAF Throughput	31Gbps
IPS & WAF Throughput	21Gbps
Threat Protection Throughput [2]	26.5Gbps
IPSec VPN Throughput	3.75Gbps
Max IPSec VPN Tunnels	5,000
Concurrent Connections (TCP)	8,000,000
New Connections (TCP)	330,000
Power Redundancy	Supported

Compliance	NGAF M5800-F-I
Certifications	CE, FCC

[1] NGFW is measured with Firewall, Bandwidth Management, IPS, Application Control

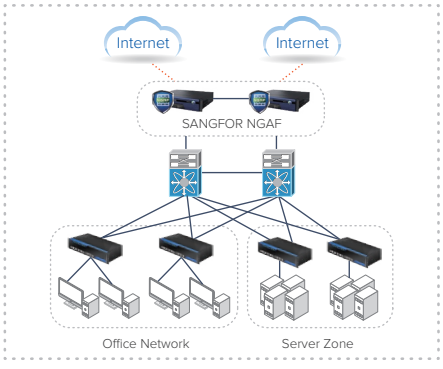
[2] Threat Prevention is measured with Firewall, Bandwidth Management IPS, Application Control, Anti Virus

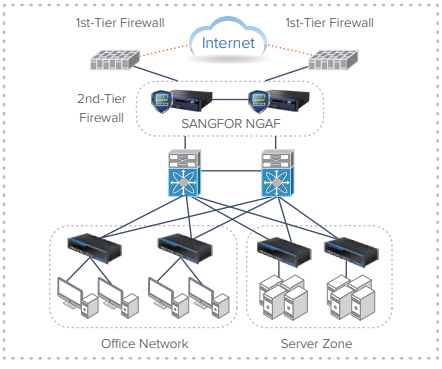
[3] Other storage options; 64GB SSD + 960G SSD, 64GB SSD + 2TB SATA

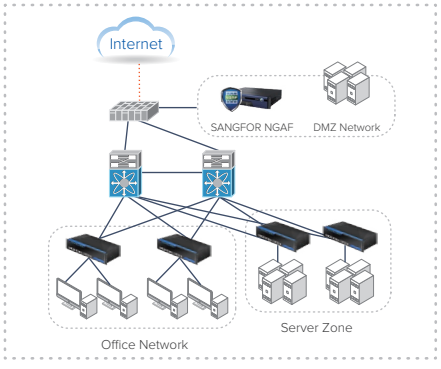
Hardware Specifications	NGAF M5800-F-I
RAM	16GB
Storage HD Capacity [3]	64GB SSD + 480G SSD
Power [Watt] Max	150W
Operating Temperature	0 - 45°C
Humidity	5% - 90%, non-condensing
System Weight	12.95 Kg
System Dimensions (L * W * H, mm)	600 x 440 x 90

Network Interfaces	NGAF M5800-F-I
Bypass (Copper)	3 pairs
10/100/1000 Base-T	10
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 ②. 2 x GE SFP ③. 4 x GE RJ45 ④. 4 x GE SFP ⑤. 8 x GE RJ45 ⑥. 8 x GE SFP ⑦. 2 x GE RJ45 & 2 x GE SFP ⑧. 4 x GE RJ45 & 4 x GE SFP ⑨. 2 x 10GE SFP+ ⑩. 4 x 10GE SFP+ ⑪. 2 x 40GE QSFP+
Serial Port	1 x RJ45
USB Port	1

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

01 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

02 Access Control

User: Import / export from external server

Authentication: SSO/LDAP/RADIUS

Application: ACL and application rules

URL Filter: Supported

03 VPN

SANGFOR VPN, IPSEC VPN and SSL VPN supported

SDWAN auto path selection

04 Management

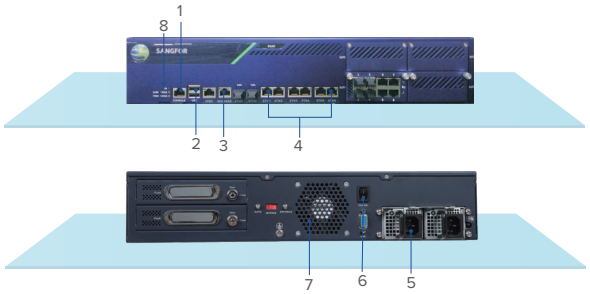
SNMP v1, v2c, v3

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

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NGAF M5800-F-I Ordering Guide

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

Sangfor NGAF Bundle Subscription

SKU	Description
ESS-58-1/2/3/5Y	M5800-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-58-1/2/3/5Y	M5800-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-58-1/2/3/5Y	M5800-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
FNX58-1/2/3/5Y	M5800-F-I, Neural-X License, Threat Intelligence & Analytics, Unknown Threat & Advanced Threat Defense, Value-Added Cloud Service
FEZ58-1/2/3/5Y	M5800-F-I, Engine Zero License, AI powered Malware Detection, Anti-malware, Anti-virus
WAFL58-1/2/3/5Y	M5800-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
STS58-1/2/3/5Y	M5800-F-I, NGAF Software Upgrade, 24*7 Technical Support Services
HRTF58-1/2/3/5Y	M5800-F-I, NGAF,Return to Factory (5 Business days ship after receipt)
HSDS-58-1/2/3/5Y	M5800-F-I, NGAF, SDS Hardware Service
HNBD-58-1/2/3/5Y	M5800-F-I, NGAF, NBD Hardware Service
H244G-58-1/2/3/5Y	M5800-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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