



Gartner

Visionary in 2022 Gartner® Magic Quadrant™ for Network Firewalls

SANGFOR NETWORK SECURE NSF-1100A-I

Sangfor Network Secure (previously known as Sangfor NGAF) is the world's first next-generation firewall that combines the latest AI Technology, Cloud Threat Intelligence, NG-WAF, IoT Security, and SoC Lite.

Experience unrivaled protection, simplified management, and effortless operation with Sangfor Network Secure.



Performance	NSF-1100A-I	Hardware Specifications	NSF-1100A-I
Firewall Throughput 1,2	20Gbps	Form Factor	1U
Application Control Throughput (64K HTTP/Enterprise Mix) ^{1,3}	12Gbps/10Gbps	RAM	8GB
IPS Throughput (64K HTTP/Enterprise Mix) ¹	3Gbps/2.8Gbps	Storage	128GB SSD
NGFW Throughput (64K HTTP/Enterprise Mix) ^{1,4}	3Gbps/2.8Gbps	Power Supply Type	Dual AC, Hot-Swapping
Threat Prevention Throughput (64K HTTP/Enterprise Mix) ^{1,5}	1.5Gbps/1.3Gbps	Power Input	100-240V, 50/60Hz
Web Application Protection Throughput (64K HTTP/Enterprise Mix) 1,6	2.3Gbps/1.1Gbps	Power Consumption (Average)	28W
IPsec VPN Throughput 17	1.5Gbps	Power Consumption (Max)	40W
Max IPsec VPN Tunnels	1000	Operating Temperature	0°C – 45°C
Recommended Maximum SSL VPN Users	130	Humidity	5% - 90% non-condensi
Concurrent Connections	2,000,000	System Weight	7.96kg
New Connections	90,000	Length x Width x Height (mm)	400 x 430 x 44.5
Virtual Domains (Recommended/Max)	3/6	Certificates	CE, FCC, ROHS

Interface & IO	NSF-1100A-I	Interface & IO	NSF-1100A-I
Hardware Bypass (Copper)	2 Pairs		• 2 x GE RJ45 • 2 x GE SFP
10/100/1000 Base-T	8 (Fixed onboard)		4 x GE RJ454 x GE SFP
1G SFP	N/A	Optional Interface Card	 8 x GE RJ45 8 x GE SFP 2 x GE RJ45 & 2 x GE SFP 4 x GE RJ45 & 4 x GE SFP 2 x 10GE SFP+ 4 x 10GE SFP+
10G SFP+	2 (Fixed onboard)		
40G QSFP+	N/A		
Network Slots (In Use/Total)	0/1	Serial Port	1 x RJ45
Dedicated Management Interface	1 (Fixed onboard)	USB Port	2

Remark

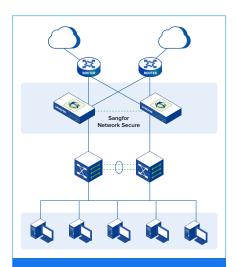
- All throughput performance data is measured under laboratory conditions. Actual performance may vary based on configuration and network environment.
- 2. Firewall Throughput is measured with 1518 Bytes UDP packets.
- 3. Application Control throughput is measured with Firewall and Application Control enabled.
- 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. Web Application Protection Throughput is measured with Firewall, Application Control, Bandwidth Management, IPS, and WAF enabled.
- 7. IPsec VPN Throughput includes Sangfor-to-Sangfor device connection and Sangfor-to-3rd party device connection scenarios.
- 8. All Pictures shown are for illustration purpose only. Actual Product may vary.





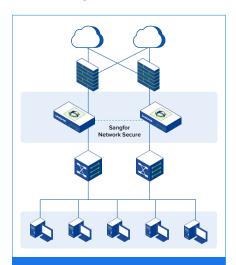






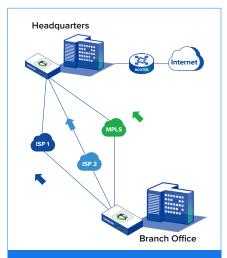
Network Protection

- Al, Threat Intelligence & WAF
- Complete asset & threats visibility
- Auto threat mitigation
- Avoid misconfigurations



2nd-Tier Firewall

- Extra layer of protection
- Effortless deployment
- No configuration changes
- Built-in hardware bypass



Secure SD-WAN

- Boost network agility
- Guarantee business continuity
- Strengthen security control
- Reduce TCO

Feature List

Networking & Deployment

- · Deployment Modes: Routed Mode (Layer 3), Transparent/Bridge Mode (Layer 2), Virtual Wire Mode, Bypass Mode, Hybrid Mode
- IPv6-Ready: IPv4, IPv6, or IPv4/IPv6 dual-stack deployment
- Interfaces: Physical, VLAN (802.1Q tagging & trunking), Sub-interface, Loopback
- PPPoE Support: Physical interfaces and sub-interfaces
- Interface Definition: Define interfaces as WAN, LAN, DMZ without hardware constraints
- · Supports GRE and GRE tunneling
- Interface Aggregation: LACP Mode and Static Mode (Round Robin, Hash, and Active-Standby)
- · Link Health Detection: ARP, DNS, Ping, BFD
- · Jumbo Frame: Supported on physical interfaces
- · Customizable network and security zones
- DHCP Features: DHCP, DHCPv6, DHCP & DHCPv6 relay, IP reservation (IPv4 & IPv6)
- DNS Capabilities: DNS proxy, DNS transparent proxy, DNS64
- ARP Proxy
- Static routing, policy-based routing, multicast routes, reverse path forwarding, ECMP
- · Policy Routing: By source/destination IP, ISP, country/region service, application type
- Link Load Balancing: Round robin, bandwidth ratio, weighted least traffic, priority link
- Protocols: RIPVI/v2, RIPNG, OSPFv2/v3, BGP/BGP4+
- Supports Route redistribution
- · OSPF supports access list and route maps, graceful restart
- Supports route testing to verify the routing result
- · Displays routing table on GUI
- NAT Features: SNAT, DNAT, Bidirectional NAT/PAT (Modes 1:1, 1:N, N:1, M:N), NAT64, NAT46, NAT66, DNS-mapping
- Application Layer Gateways (ALG): FTP, RTSP, SQLNET, PPTP, TFTP,
- Availability Features: Active-Active, Active-Standby, Hardware Bypass

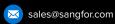
IPsec VPN

- Supports: Sangfor VPN, IPsec VPN
- Site-to-site IPsec VPN (static IP, dynamic IP, dynamic domain)
- IKEv1 and IKEv2
- · Works in tunnel mode
- IPsec protocols: AH and ESP
- · Supports main mode and aggressive mode
- · Authentication methods: pre-shared key and certificate
- Local & peer ID: IP address, Domain String(FQDN), User String(USER_FQDN)
- DH Group & Perfect Forward Secrecy: group1(MODP1024), group2(-MODP768), group5(MODP1536), group14(MODP2048), group15(MODP3072), group16(MODP4096), group17(MODP6144), group18(MODP8192), group19(ECP256), group20(ECP384), group21(ECP512), group22(-MODP1024_160), group23(MODP2048_224), group24(MODP2048_256), group25(ECP192), group26(ECP224), group27(ECP224_BP), $group 28 (ECP256_BP), \ group 29 (ECP384_BP), \ group 30 (ECP512_BP).$
- IPsec encryption algorithms: DES, 3DES, AES/AES128, AES192, AES256, Sangfor_DES
- IPsec authentication algorithms: MD5, SHA1, SHA256, SHA384, SHA512
- NAT-T. DPD
- Supports setup expiration time of IPsec VPN tunnels
- · Supports VPN tunnel auto rebuild during heartbeat failure or HA failover
- VPN tunnel status monitoring, including traffic, latency, packet loss, etc.
- Configuration wizard for Sangfor VPN or IPsec VPN

SSL Decryption

- SSL/TLS inspection: Outbound traffic to the Internet and inbound traffic to application servers
- TLS 1.3 decryption









Feature List

SSL VPN

- · Supports SSL VPN in CS (client-server) mode
- Hash Algorithms: MD5, SHA1, SHA256, SHA384, SHA512
- Encryption algorithms: DES, 3DES, AES/AES128, AES192, AES256, Sangfor_DES.
- Protocols: TCP, UDP, ICMP
- Browser Compatibility: IE, Edge, Firefox, Chrome, etc.
- OS Compatibility: Windows, Android, iOS, macOS, Ubuntu, etc.
- · Authentication: Primary authentication (local/LDAP), secondary authentication (hardware ID, TOTP with Google/Microsoft authenticators)

SD-WAN & Central Management

- Dynamic Path Selection: Based on custom SLAs (jitter, latency, packet loss), bandwidth, application type
- Application categorization by type to meet different SLA requirements
- · SOFAST Engine: Link optimization in high packet loss environments
- · SD-WAN tunnel failover and link failover
- · Zero-touch provisioning via email template
- Map view of device location
- Centralized management with Sangfor Central Manager
- · Centralized monitoring of device status, CPU/RAM/disk usage, traffic
- Centralized remote control of devices
- Centralized security policy distribution
- Centralized VPN deployment and configuration

Bandwidth Management

- · Manage bandwidth by application, user/group, IP address, schedule, country/region, sub-interface, VLAN interface
- Bandwidth Control: Bandwidth guarantee, bandwidth limit, upload & download speed, speed for single IPs

Access Control & Authentication

- Stateful Packet Inspection (Stateful Firewall)
- Deep Packet Inspection (DPI): Identifies applications to allow/deny access
- Built-in Application Signature Database: Over 9,000 signatures, including P2P, IM, gaming, video streaming, email, proxy apps
- "From top to bottom, first match basis" method
- Access control based on source/destination IP, source/destination zone. source port, FQDN, MAC, User, service, applications, schedule, etc.
- Supports persistent connections
- Supports matching count for access control policies
- · Policy optimizer: One-click to identify abnormalities in access control policies, including redundancy, duplication, and conflicts
- Automatically records the access control policy lifecycle
- · Geolocation blocking: Allow/deny access from certain countries/regions
- · Connection control based on source IP, destination IP, bidirectional IP
- · User authentication: Captive portal, MAC/IP address binding, or Single Sign-On (SSO)
- · Authentication with LDAP, RADIUS, POP3. Supports user imports via CSV file
- Single-Sign-On (SSO) with Microsoft AD, RADIUS, Web, etc.
- HTML-based customizable captive portal

ARP, DoS/DDoS Attack Protection

- DoS/DDoS attack protection for both the network and the device itself
- SYN flood, ICMP flood, ICMPv6 flood, UDP flood, DNS flood, ARP flood prevention
- IP scan and port scan prevention
- Packet-based attack prevention, e.g., TearDrop Attack, IP fragment, LAND attack, WinNuke attack, Smurf attack, Ping of Death, Unknown protocol
- Bad IP option, Bad TCP option prevention
- ARP Spoofing Protection

Content Security

- · URL filtering with a built-in URL signature database
- Supports customized URL signatures
- File filtering in both upload and download directions. Supported file types include pictures, text files, compressed files, and executables
- · Gateway malware inspection: Cloud-based Sangfor Neural-X (threat intelligence, sandbox) and on-premises Sangfor Engine Zero (Al malware inspection engine). Able to prevent known and unknown threats
- Malware inspection supports protocols like HTTP, HTTPS, FTP, SMB, SMTP, POP3, IMAP
- Malware inspection supports file types including movies, music, image, text. compressed files (up to 16 layers), executables, documents, scripts
- Remove malware from detected malicious files
- Whitelist based on MD5 and URL
- In-depth inspection of email body and attachments
- Inserts warning messages into email subjects to caution users against opening malicious emails

Web Application Firewall (WAF)

- Dedicated web application protection with a semantic detection engine, not with IPS
- Supports custom WAF rules
- Detects and protects against 13 major types of attacks, including SQL injection, XSS, web shells, CSRF, system command injection
- Protection against the OWASP Top 10 web application security risks
- · Defense against buffer overflow attacks, including URL length overflow, HTTP header overflow, POST entity overflow
- CC (Challenge Collapsar) attack prevention
- XXE (XML External Entity) attack prevention
- Detect HTTP request anomalies
- Prevent cookie-based attacks
- · Cloud Intelligence: for the latest IP reputation and IP blacklist data
- Real-time Web Vulnerability Scanner: Analyzes web application vulnerabilities in passive mode and generates reports in HTML format
- Application Hiding: Prevent targeted attacks with the feedback information from the applications
- Weak password detection and brute-force attack prevention
- Restrict upload of blacklisted file types
- · Specify access privileges for sensitive URLs such as the admin page







Feature List

APT Protection & Intrusion Prevention System (IPS)

- Malicious Domain & URL Detection
- Remote Access Trojan (RAT) Detection
- Suspicious Traffic Detection: Discover abnormal behavior on standard ports
- Vulnerability Exploit Protection: Protect against vulnerability exploits targeting systems, applications, middleware, databases, explorer, Telnet, DNS, and more
- Brute-Force Attacks: Protection profiles for SSH, Telnet, RDP, NTLM, FTP, etc.
- Botnet Detection: Detect botnet client communication, include DNS tunneling, ICMP tunneling, HTTP tunneling etc.
- Correlate with Sangfor Endpoint Secure to detect hidden botnet activity
- Cloud-based analysis engine for enhanced detect
- Dedicated protection profiles for client & server scenarios
- Supports custom IPS rules

IoT Security

- Detect IoT devices across the network through proactive scans and traffic learning
- Detected IoT devices are presented as an asset list
- OT protocol behavior auditing: Supported protocols include OPCDA, S7/S7-plus, IEC104, MODBUS, DNP3
- Dedicate IoT IPS signature database

SoC Lite

- Proactive asset detection and guidance for fixing potential risks
- Business System & Client Threats Dashboard: Monitor and manage threats to business systems and clients, including severity levels, threat types, kill-chain steps, top security events
- Ransomware Protection Dashboard: Detect and manage ransomware-related risks such as weak passwords, risky ports, etc. Helps administrators create ransomware protection policies
- Account Security Dashboard: Detect account-related threats, including weak passwords, abnormal login activity, brute-force attacks, compromised accounts
- Whitelist & Blacklist
- Cloud Deception: Utilize cloud resources to deploy decoys to confuse attackers, track malicious behaviors, locate and block the source of the threat

Certifications

- · CE, FCC, RoHS
- ICSA Firewall, Gartner Magic Quadrant, CyberRatings

Logging & Reporting

- · Built-in log and report center available by default for all hardware
- Records logs to local disk including access control logs, session logs, traffic audit logs, user authentication logs admin operation logs, SSL VPN logs, local ACL logs.
- Traffic/session monitoring by device, application, IP, interface
- Displays traffic rankings by user/IP, group, application type & application category.
- · Options for daily, weekly, or monthly security report subscriptions
- Supports security reports in PDF format
- Supports syslog in Common Event Format
- Supports sending syslog to multiple target servers

Management

- Support manage via WebUI, SSH, CLI, serial port etc.
- WebUI supports TLS1.0, TLS1.1, TLS1.2, TLS1.3
- Supports role-based authorization for admin users. Default roles include security admin, system admin, and audit admin
- Admin user supports local password, TACACS server, and RADIUS server
- · Automatic or manual configurations backup
- Backup configuration file to FTP, TFTP & SFTP by schedule
- Out-of-Band Management (OOBM)
- Time setting supports synchronization with local PC and NTP servers
- Firmware version rollback
- SNMP v1/v2c/v3, SNMP trap
- Email alerts for hardware abnormality, resource usage, security event, HA status, etc.
- Troubleshooting via WebUI; Identify packet drop reasons by policy, interface, etc.

Integration

- Sangfor Neural-X: Latest threat intelligence, cloud-based URL/App classifications, etc.
- Sangfor Endpoint Secure: Share intelligence and locate and mitigate malicious processes with quick/full scan and one-click kill
- Sangfor Cyber Command: Security log analysis
- Sangfor Platform-X: Centralized management
- Restful APIs available to integrate with third-party SIEM, SoC, etc.





• Ordering Guide •

Sangfor Network Secure	Hardware
SKU	Description
NSF1100A	NSF-1100A-I, hardware appliance, 8 x GE RJ45, 2 x 10G SFP+, 1 x available NIC slot. 128GB SSD. Dual AC power supply.
Sangfor Network Secure	Bundle Subscription
SKU	Description
ESS-1100A-1Y/2Y/3Y/5Y	NSF-1100A-I, Essential Bundle (SSL VPN, Site-to-Site IPsec VPN, Stateful Firewall, Bandwidth Management, URL Filtering, Application Control, IPS, Botnet Prevention, Email Security, SoC Lite, Basic Security Reporter).
PM-1100A-1Y/2Y/3Y/5Y	NSF-1100A-I, Premium Bundle (SSL VPN, Site-to-Site IPsec VPN, Stateful Firewall, Bandwidth Management, URL Filtering, Application Control, IPS, Botnet Prevention, Email Security, SoC Lite, Basic Security Reporter, Engine Zero, Neural-X).
ULT-1100A-1Y/2Y/3Y/5Y	NSF-1100A-I, Ultimate Bundle including Premium Bundle (SSL VPN, Site-to-Site IPsec VPN, Stateful Firewall, Bandwidth Management, URL Filtering, Application Control, IPS, Botnet Prevention, Email Security, SoC Lite, Basic Security Reporter, Engine Zero, Neural-X) and Platform-X (Network Secure & Endpoint Secure Management, Security Log Retention on the Cloud, Security Posture Reporting), Incident Response (Best Effort Investigation, 2 times per annum), and 30 complimentary units of Endpoint Secure Agents.
SDWE-1100A-1Y/2Y/3Y/5Y	[Promotion in 2023] NSF-1100A-I, Secure SD-WAN Essential Bundle (SSL VPN, Site-to-Site IPsec VPN, Stateful Firewall, Bandwidth Management, URL Filtering, Application Control, IPS, Botnet Prevention, Email Security, SoC Lite, Basic Security Reporter, SD-WAN, 1 x Central Management Branch Access License).
SDWP-1100A-1Y/2Y/3Y/5Y	[Promotion in 2023] NSF-1100A-I, Secure SD-WAN Premium Bundle (SSL VPN, Site-to-Site IPsec VPN, Stateful Firewall, Bandwidth Management, URL Filtering, Application Control, IPS, Botnet Prevention, Email Security, SoC Lite, Basic Security Reporter, Engine Zero, Neural-X, SD-WAN, 1x Central Management Branch Access License).
Sangfor Network Secure	A-La-Carte Subscription
Sangfor Network Secure	A-La-Carte Subscription Description
SKU	Description NSF-1100A-I, Neural-X License, Threat Intelligence & Analytics, Unknown Threat & Advanced Threat Defense, Value-Added
SKU FNX-1100A-1Y/2Y/3Y/5Y	Description NSF-1100A-I, Neural-X License, Threat Intelligence & Analytics, Unknown Threat & Advanced Threat Defense, Value-Added Cloud Service.
SKU FNX-1100A-1Y/2Y/3Y/5Y FEZ-1100A-1Y/2Y/3Y/5Y	Description NSF-1100A-I, Neural-X License, Threat Intelligence & Analytics, Unknown Threat & Advanced Threat Defense, Value-Added Cloud Service. NSF-1100A-I, Engine Zero License, Al-Powered Malware Detection, Anti-Malware, Anti-Virus. NSF-1100A-I, Web Application Firewall Module, supporting Signature-Based Protection, Semantic Engine, Application Hiding, HTTP Anomalies Detection, Vulnerability Scanner, Advanced Security Reporter.
SKU FNX-1100A-1Y/2Y/3Y/5Y FEZ-1100A-1Y/2Y/3Y/5Y WAFL-1100A-1Y/2Y/3Y/5Y	NSF-1100A-I, Neural-X License, Threat Intelligence & Analytics, Unknown Threat & Advanced Threat Defense, Value-Added Cloud Service. NSF-1100A-I, Engine Zero License, AI-Powered Malware Detection, Anti-Malware, Anti-Virus. NSF-1100A-I, Web Application Firewall Module, supporting Signature-Based Protection, Semantic Engine, Application Hiding, HTTP Anomalies Detection, Vulnerability Scanner, Advanced Security Reporter. NSF-1100A-I, Secure SD-WAN License, supporting SD-WAN Path Selection, Packet Loss Optimization, 1 x Central
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Network Secure Datasheet_DS_P_NSF-1100A-1_20231127



