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.

<table>
<thead>
<tr>
<th>Performance &amp; Capacity</th>
<th>NGAF M5100-F-I</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimension</td>
<td>1U</td>
</tr>
<tr>
<td>Firewall Throughput</td>
<td>2.8Gbps</td>
</tr>
<tr>
<td>NGFW Throughput</td>
<td>2.5Gbps</td>
</tr>
<tr>
<td>WAF Throughput</td>
<td>2.5Gbps</td>
</tr>
<tr>
<td>IPS &amp; WAF Throughput</td>
<td>1.4Gbps</td>
</tr>
<tr>
<td>Threat Protection Throughput</td>
<td>1.8Gbps</td>
</tr>
<tr>
<td>IPSec VPN Throughput</td>
<td>250Mbps</td>
</tr>
<tr>
<td>Max IPSec VPN Tunnels</td>
<td>300</td>
</tr>
<tr>
<td>Concurrent Connections (TCP)</td>
<td>750,000</td>
</tr>
<tr>
<td>New Connections (TCP)</td>
<td>20,000</td>
</tr>
<tr>
<td>Dual Power Supply</td>
<td>N/A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hardware Specifications</th>
<th>NGAF M5100-F-I</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAM</td>
<td>4GB</td>
</tr>
<tr>
<td>Storage HD Capacity</td>
<td>128GB SSD</td>
</tr>
<tr>
<td>Power [Watt] Max</td>
<td>40W</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0°C ~ 45°C</td>
</tr>
<tr>
<td>Humidity</td>
<td>5% ~ 90% non-condensing</td>
</tr>
<tr>
<td>System Weight</td>
<td>3.85 Kg</td>
</tr>
<tr>
<td>System Dimensions (L * W * H, mm)</td>
<td>300 x 430 x 45</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Network Interfaces</th>
<th>NGAF M5100-F-I</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bypass (Copper)</td>
<td>1 pair</td>
</tr>
<tr>
<td>10/100/1000 Base-T</td>
<td>6</td>
</tr>
<tr>
<td>SFP</td>
<td>N/A</td>
</tr>
<tr>
<td>10G Fiber SFP+</td>
<td>N/A</td>
</tr>
<tr>
<td>Network Modules (Total/Available)</td>
<td>1/1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Optional Interface</th>
<th>Per network module can add one of the NIC card below</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. x RJ45</td>
<td>1. 2 x GE RJ45</td>
</tr>
<tr>
<td>2. x GE SFP</td>
<td>2. 2 x GE SFP</td>
</tr>
<tr>
<td>3. x GE RJ45</td>
<td>3. 4 x GE RJ45 &amp; 2 x GE SFP</td>
</tr>
<tr>
<td>4. x GE SFP</td>
<td>4. 4 x GE SFP</td>
</tr>
<tr>
<td>5. x 8 x GE RJ45</td>
<td>5. 8 x GE RJ45 &amp; 4 x GE SFP</td>
</tr>
</tbody>
</table>

| Serial Port                     | 1 x RJ45                                              |
| USB Port                        | 2                                                     |

Compliance
Certifications CE, FCC

1. All throughput performance data is measured in the laboratory environment. The performance may vary depending on the configuration & network environment.
2. Firewall Throughput is measured with 1518 Bytes UDP packets.
3. NGFW Throughput is measured with firewall, application control, bandwidth management, and-IPS enabled.
4. IPSec Throughput is measured with IPSec, application control, bandwidth management, IPS, and Ant-Virus enabled.
5. If you need the optional NIC card not listed, please consult with Sangfor local sales representatives.

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

Deployment Modes

Internet

SANGFOR NGAF

Office Network

Server Zone

Internet

1st-Tier Firewall

2nd-Tier Firewall

SANGFOR NGAF

Office Network

Server Zone

Internet

1st-Tier Firewall

SANGFOR NGAF

Office Network

Server Zone

Internet

SANGFOR NGAF

Office Network

DMZ Network

Server Zone

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

1. **Comprehensive WAF**

   - Web Application Firewall (WAF)
   - Support OWASP Top 10 WAF requirements
   - Recommended by NSS

2. **Converged Security**

   - Integrated L2-7 Security features:
   - DoS/DDoS: Inbound, Outbound, Attack Protection
   - Content Security
   - IPS
   - Anti-virus
   - Engine Zero: AI based anti-malware, anti-virus
   - APT
   - WAP
   - Data Leakage Prevention
   - Bandwidth Management
   - Real-Time Vulnerability Scanner
   - Security Reporter
   - Neural-X: Cloud threat intelligence and analytics

**Software Features**

1. **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

2. **Access Control**

   - User: Import / export from external server
   - Authentication: SSO/LDAP/RADIUS
   - Application: ACL and application rules
   - URL Filter: Supported

3. **VPN**

   - SANGFOR VPN, IPSEC VPN and SSL VPN supported
   - SDWAN auto path selection

4. **Management**

   - SNMP v1, v2c, v3
   - Syslog
   - Real-Time Vulnerability Scanner
   - Central management

5. **Key Features**

   - 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.

   - 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.

   - 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.

**Hardware Description**

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

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