SANGFOR NGAF
M5200-F-I

Sangfor Next Generation Application Firewall is the world’s 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-5200 is the ideal Converged Security solution for Small & Medium Enterprises. It is also ideal for Branch Deployment.

<table>
<thead>
<tr>
<th>Performance &amp; Capacity</th>
<th>NGAF M5200-F-I</th>
<th>Hardware Specifications</th>
<th>NGAF M5200-F-I</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimension</td>
<td>1U</td>
<td>RAM</td>
<td>4GB</td>
</tr>
<tr>
<td>Firewall Throughput1,2</td>
<td>4.9Gbps</td>
<td>Storage HD Capacity</td>
<td>128G SSD</td>
</tr>
<tr>
<td>NGFW Throughput3</td>
<td>2.8Gbps</td>
<td>Power [Watt] Max</td>
<td>40W</td>
</tr>
<tr>
<td>WAF Throughput3</td>
<td>2.8Gbps</td>
<td>Operating Temperature</td>
<td>0°C ~ 45°C</td>
</tr>
<tr>
<td>IPS &amp; WAF Throughput4</td>
<td>2.1Gbps</td>
<td>Humidity</td>
<td>5% ~ 90% non-condensing</td>
</tr>
<tr>
<td>Threat Protection Throughput5,6</td>
<td>2Gbps</td>
<td>System Weight</td>
<td>3.85 Kg</td>
</tr>
<tr>
<td>IPSec VPN Throughput7</td>
<td>375Mbps</td>
<td>System Dimensions (L * W * H, mm)</td>
<td>300x430x45</td>
</tr>
<tr>
<td>Max IPSec VPN Tunnels</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Concurrent Connections (TCP)</td>
<td>1,200,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Connections (TCP)</td>
<td>30,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dual Power Supply</td>
<td>N/A</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Network Interfaces</th>
<th>NGAF M5200-F-I</th>
<th>Optional Interface6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bypass (Copper)</td>
<td>1 pair</td>
<td>1. 2 x GE RJ45</td>
</tr>
<tr>
<td>10/100/1000 Base-T</td>
<td>6</td>
<td>2. 2 x GE SFP</td>
</tr>
<tr>
<td>SFP</td>
<td>N/A</td>
<td>3. 4 x GE RJ45</td>
</tr>
<tr>
<td>10G Fiber SFP+</td>
<td>N/A</td>
<td>4. 4 x GE SFP</td>
</tr>
<tr>
<td>Network Modules (Total/Available)</td>
<td>1/1</td>
<td>5. 8 x GE RJ45 &amp; 4 x GE SFP</td>
</tr>
<tr>
<td>Serial Port</td>
<td>1 x RJ45</td>
<td>6. 8 x GE SFP</td>
</tr>
<tr>
<td>USB Port</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

<table>
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<tr>
<th>Compliance</th>
<th>NGAF M5200-F-I</th>
<th>Certifications</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>CE, FCC</td>
<td></td>
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</table>

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. Threat Prevention Throughput is measured with Firewall, Application Control, Bandwidth Management, IPS, and Anti-Virus enabled.
5. If you need the optional NIC card not listed, please consult with Sangfor local sales representatives.
6. Per network module can add one of the NIC card 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

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

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**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
   - Antivirus
   - 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**

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. **Hardware Description**
   - 1. USB ports
   - 2. Console Interface
   - 3. Line Interface
   - 4. Management Interface
   - 5. Power outlet
   - 6. Switch
   - 7. Fan Trays
   - 8. LED Indicators
   
   All Pictures shown are for illustration purpose only. Actual Product may vary.

**NGAF M5200-F-I Ordering Guide**

<table>
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<tr>
<th>Description</th>
<th>SKU</th>
</tr>
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<tbody>
<tr>
<td>Essentials (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)</td>
<td>ES5-52-12/3/5Y</td>
</tr>
<tr>
<td>Premium (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)</td>
<td>PM5-52-12/3/5Y</td>
</tr>
<tr>
<td>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) &amp; Platform-X (NGAF &amp; Endpoint Secure Management, Event Correlation &amp; Response, Security Posture Reporting) &amp; Incident Response (2 times per annum) &amp; Complimentary 30 units of Endpoint Secure Protect Agents (Limited Time Offer)</td>
<td>ULT5-52-12/3/5Y</td>
</tr>
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*All bundles are offered in 1, 2, 3 or 5 year increments*

**"A La Carte" Subscription License**

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<tr>
<td>Neural-X License, Threat Intelligence &amp; Analytics, Unknown Threat &amp; Advanced Threat Defense, Value-Added Cloud Service</td>
<td>FNX52-12/3/5Y</td>
</tr>
<tr>
<td>Engine Zero License, AI powered Malware Detection, Anti-malware, Anti-virus</td>
<td>FEZ52-12/3/5Y</td>
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**Hardware Support Services**

<table>
<thead>
<tr>
<th>Description</th>
<th>SKU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Software Upgrade, 24*7 Technical Support Services</td>
<td>STS52-12/3/5Y</td>
</tr>
<tr>
<td>Return to Factory (5 Business days ship after receipt)</td>
<td>HRTF52-12/3/5Y</td>
</tr>
<tr>
<td>SDS Hardware Service</td>
<td>HSDS52-12/3/5Y</td>
</tr>
<tr>
<td>TBD Hardware Service</td>
<td>HNB52-12/3/5Y</td>
</tr>
<tr>
<td>24x7x4 Delivery Hardware Service</td>
<td>H44G52-12/3/5Y</td>
</tr>
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For more information on Sangfor’ full range of support & services, please contact your local representative.