Hardware Comparison

The Netgate® hardware comparison chart is designed to give visitors a quick side-by-side comparison of Netgate appliances running pfSense® Plus software against one another. While most of this data (and more) exists on individual product pages, we believe the chart makes it fast and easy for viewers to quickly determine which appliance is best for their needs.

The comparison matrix has two critical dimensions:

1. Packet Sizes: iPerf3 and IMIX
2. Secure Networking Function: Routing (Forwarding), Firewall, VPN

This provides a very clear manner by which products can be compared - and under different levels of user-experienced traffic conditions. We see this as crucial given our user base varies, literally, from home consumers (with relatively light bandwidth and firewall needs) all the way to sophisticated enterprises (who demand predictable performance under the most strenuous encryption and packet mix conditions).
# Netgate Hardware Comparison Chart

<table>
<thead>
<tr>
<th>WHO</th>
<th>NEEDS</th>
<th>PERFORMANCE</th>
<th>HARDWARE</th>
</tr>
</thead>
</table>
| **Netgate 1100** | **Home**               | L3 Forwarding: 422 Mbps  
Fremont: 407 Mbps  
Proc: VTH: 247 Mbps  
RAM: 10 Mbps  
| 580 GHz 4-WMC  
1 GB DDR4  
| (5) switch ports:  
1 GB Gigabit Ethernet  
with 1 Gigabit uplink |
| **Netgate 2100** | **Home Pro**           | L3 Forwarding: 472 Mbps  
Fremont: 191 Mbps  
Proc: VTH: 90 Mbps  
RAM: 4GB (RAM-8GB available)  
| 680 GHz 4-WMC  
4 GB DDR4  
| (5) independent and  
integral ports:  
1x 1Gbps and 4x 10/100 Ethernet  
with 2.5 Gbps uplink |
| **Netgate 4100** | **Branch/Small Business** | L3 Forwarding: 2.25 Gbps  
Fremont: 964 Mbps  
Proc: VTH: 256 Mbps  
RAM: 6 GB (RAM-8GB available)  
| 880 GHz 4-WMC  
8 GB DDR4  
| (4) independent  
ports:  
1x 1Gbps and 3x 10/100 Ethernet  
with 2.5 Gbps uplink |
| **Netgate 6100** | **Branch/Small Business** | L3 Forwarding: 8.15 Gbps  
Fremont: 4.00 Gbps  
Proc: VTH: 960 Mbps  
RAM: 12 GB (RAM-16GB available)  
| 1,680 GHz 4-WMC  
16 GB DDR4  
| (6) independent  
ports:  
3x 1Gbps and 3x 10/100 Ethernet  
with 10 Gbps uplink |
| **Netgate 7100** | **Large Business**     | L3 Forwarding: 18.50 Gbps  
Fremont: 9.99 Gbps  
Proc: VTH: 1.77 Gbps  
RAM: 24 GB (RAM-32GB available)  
| 2,000 GHz 4-WMC  
32 GB DDR4  
| (8) independent  
ports:  
3x 1Gbps and 5x 10/100 Ethernet  
with 10 Gbps uplink |
| **Netgate 1537** | **Large Business**     | L3 Forwarding: 18.00 Gbps  
Fremont: 9.62 Gbps  
Proc: VTH: 1.72 Gbps  
RAM: 24 GB (RAM-32GB available)  
| 2,000 GHz 4-WMC  
32 GB DDR4  
| (8) independent  
ports:  
3x 1Gbps and 5x 10/100 Ethernet  
with 10 Gbps uplink |
| **Netgate 1541** | **Large Business**     | L3 Forwarding: 15.10 Gbps  
Fremont: 8.45 Gbps  
Proc: VTH: 1.65 Gbps  
RAM: 24 GB (RAM-32GB available)  
| 2,000 GHz 4-WMC  
32 GB DDR4  
| (8) independent  
ports:  
3x 1Gbps and 5x 10/100 Ethernet  
with 10 Gbps uplink |

**Footnotes:**
1. All performance tests are based on optimized maximum configuration and base model port configuration (no port expansion). Throughput measurements are based on maximum bi-directional traffic across all available ports.
2. Direct traffic is TCP, UDP, IPv4, IPv6, and 1Gbps (10/100) Ethernet.  
3. Netgate 7100 throughput is based on the Netgate 1537/1541, all tests were run by monitoring throughput across available base model physical ports (Netgate 7100 with 10 ports vs. Netgate 1537/1541 with only 4 ports). The Netgate 1537/1541 assumed the Netgate 7100 by port performance.
4. Performance tests for all appliances were performed using pfSense Plus version 2.4.3.

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