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

### WHO

#### Netgate 1100
- Home
  - Cost efficient / Low power
  - Sleek, compact
  - Silent operation (fanless)
  - Put on a desktop, shelf, or wall
  - L3 Forwarding: 860 Mbps
  - Firewall: 456 Mbps
  - Port: 1915 Mbps

#### Netgate 2100
- Home
  - Cost efficient / Low power
  - Sleek, compact
  - Silent operation (fanless)
  - L3 Forwarding: 1.06 Gbps
  - Firewall: 881 Mbps
  - Port: 1106 Mbps

#### Netgate 3100
- Home
  - Cost efficient / Low power
  - Sleek, compact
  - Silent operation (fanless)
  - L3 Forwarding: 3.04 Gbps
  - Firewall: 683 Mbps
  - Port: 868 Mbps

#### Netgate 5100
- Home
  - Cost efficient / Low power
  - Sleek, compact
  - Silent operation (fanless)
  - L3 Forwarding: 3.76 Gbps
  - Firewall: 1.53 Gbps
  - Port: 3.00 Gbps

#### Netgate 6100
- Home
  - Cost efficient / Low power
  - Sleek, compact
  - Silent operation (fanless)
  - L3 Forwarding: 18.79 Gbps
  - Firewall: 8.07 Gbps
  - Port: 15.93 Gbps

#### Netgate 7100
- Home
  - Desktop fanless only
  - L3 Forwarding: 18.53 Gbps
  - Firewall: 2.07 Gbps
  - Port: 5.22 Gbps

#### Netgate 1537
- Home
  - Rack Mount
  - Expandable memory
  - Expandable storage
  - High Availability
  - L3 Forwarding: 18.76 Gbps
  - Firewall: 7.66 Gbps
  - Port: 1.44 Gbps

#### Netgate 1541
- Home
  - Rack Mount
  - Expandable memory
  - Expandable storage
  - High Availability
  - L3 Forwarding: 18.79 Gbps
  - Firewall: 8.50 Gbps
  - Port: 1.99 Gbps

### NEEDS

- Home Pro
- Branch/Small Business
- Medium Business
- Large Business
- Data Center
- Home
- Branch/Small Business
- Medium Business
- Large Business
- Data Center

### PERFORMANCE

#### iPerf3
- (Min/Max Bandwidth)
- (Min/Max Transfer)
- (Min/Max Throughput)
- (Min/Max Rate)

#### IMIX
- (Min/Max Bandwidth)
- (Min/Max Transfer)
- (Min/Max Throughput)
- (Min/Max Rate)

### CPU

- Dual Core Cortex-A53 ARMv8a @ 1.2GHz

### Storage

- 8 GB eMMC

### Memory

- 1 GB DDR4

### Network Ports

- (B) Independent and external ports:
  - 1.1 Gbps LAN/WAN port
  - 1.1 Gbps LAN/WAN port

- (C) Switch:
  - 1.1 Gbps Switch

- (D) Switch:
  - 1.1 Gbps Switch

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