NETGATE 8200

pfsense +

FIREWALL. VPN. ROUTER.

If you need high-throughput firewall, routing, and VPN performance, look no further. The Netgate® 8200 with pfSense® Plus software is the fastest Intel® Atom®-based firewall we offer, in a whisper-quiet rack mount configuration. It is ideal for remote offices, edge deployments, managed service providers, and enterprise networks.

Double the cores, double the memory, double the power.

Combining the power of an 8-Core Intel Atom C3758R CPU with integrated QuickAssist & AES-NI along with 16 GB of memory, the Netgate 8200 provides:

● Over 80% greater firewall *and* VPN throughput than the Netgate 6100
● Double the firewall performance and over 70% more VPN throughput than the outgoing Netgate 7100*

AFFORDABLE RELIABILITY

Experience the performance and business assurance expected from leading secure networking applications at a fraction of the cost of proprietary alternatives. Enjoy unlimited users, unlimited firewall rules, unlimited IPsec tunnels, dual WAN, etc. with no artificial limits and no additional usage or feature-based pricing.

SIMPLE MANAGEMENT

Manage pfSense Plus software settings through our web-based GUI. No need to fumble with a command line interface or type commands.

FLEXIBLE CONFIGURATION

From Firewall to Unified Threat Management, get all the security features you need to protect your network.

POWER EFFICIENT & QUIET

An actively controlled cooling fan integrated into the chassis baseplate allows the unit to remain uncharacteristically quiet for such a powerful 1U system and the Intel Atom processors are designed for low power consumption.

PERFORMANCE

18.6 Gbps
Router

18.5 Gbps
Firewall

3.24 Gbps
IPsec VPN
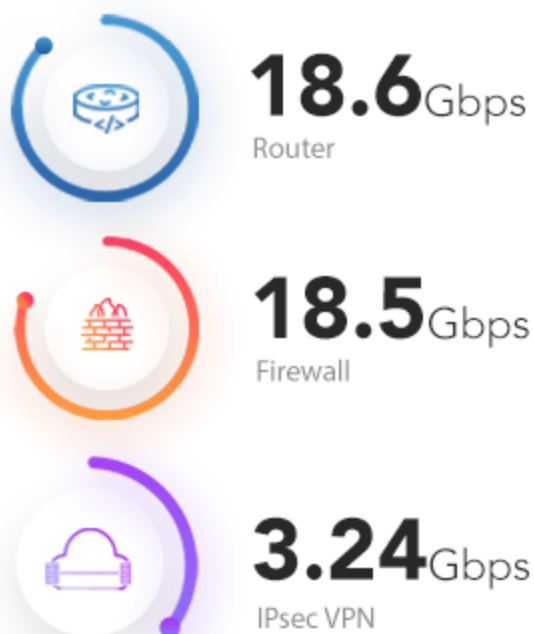
Both IMIX and iPerf3 tests were used to measure throughput.
See our hardware comparison chart below for greater detail.

L3 Forwarding
● IPERF3 Traffic: 18.60 Gbps
● IMIX Traffic: 11.76 Gbps

Firewall
(10k ACLs)
● IPERF3 Traffic: 18.55 Gbps
● IMIX Traffic: 5.1 Gbps

IPsec VPN
(AES-GCM-128 w/QAT)
● IPERF3 Traffic: 3.24 Gbps
● IMIX Traffic: 810 Mbps

Netgate 8200 performance tests conducted with pfSense Plus software version 22.05

The Netgate 8200 is also available with TNSR software. TNSR is a high-performance software router capable of producing considerable performance increases far beyond the limits of pfSense Plus software.

WHY PFSENSE PLUS SOFTWARE?

Our Get to Know pfSense Plus Software page has additional information about pfSense Plus routing and security features, performance, and technology. Solution Briefs, Videos, and Technical Documentation are also available to help you along your pfSense journey.

SPECIFICATIONS

Eight Core 2.4 GHz
Intel® Atom CPU

8 independent and
flexible WAN/LAN ports

16GB DDR4 RAM

HARDWARE SPECIFICATIONS:

CPU	Intel Atom C3758R with QAT, 8-core @ 2.4 GHz (Denverton family)
Physical Network I/O ports	(2) 10 Gbps SFP+ WAN ports (2) Auto media detect 1 Gbps (RJ45 copper / SFP fiber) combo WAN ports (4) 2.5 Gbps RJ-45 "direct" (unswitched) ethernet (LAN) Intel i226 ports
Storage	128 GB NVMe M.2 SSD (B+M Key)
Memory	16 GB DDR4 w/o ECC, single channel (soldered down)
Physical Expansion Card Slots	2x m.2 (Key-B slot) with dual-SIM (LTE, Wi-Fi, or NVMe) (PCIe, USB 2.0, USB 3.0) 1x Mini-PCIe Slot (Wi-Fi Only)
Console Port	1 x auto-detect console port: "Cisco pinout" RJ45 + micro-USB (micro-USB cable included with each system)
USB Ports	2x USB 3.0 jacks (USB-A female) Located on right side rear / lead out to right side front panel of 1U rack

LED	3x 4-color LEDs (RGB + amber) Software / bootloader controllable via Microchip MCU
Enclosure	1U Rack - Aluminum, plastic, and steel enclosure. 19 x 10 x 1.75 inches 482.6 x 254 x 44.45 mm
Cooling	Active - integrated quiet chassis fan with onboard control
Power	External ITE P/S AC/DC 100-240V, 50-60 Hz, 12V 5.0A (60W), threaded (locking) barrel connector. - AC Inlet: IEC320-C7 (2 PIN) - Power Cord: One US, UK, EU or ANZ power cord included - US Power Cord: NEMA 1-15-P to IEC320-C7 - UK Power Cord: BS 1363 to IEC320-C7 - EU Power Cord: CEE7/16 to IEC320-C7 - ANZ Power Cord: AS 3112 (ungrounded) to IEC320-C7
Environmental	0°C (32°F) to 40°C (104°F) - ambient
Certifications	FCC (Class B), IEC / CE, CB, UL, RoHS, RCM, UKCA