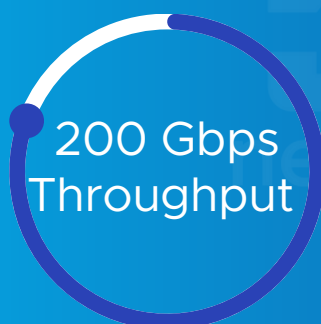
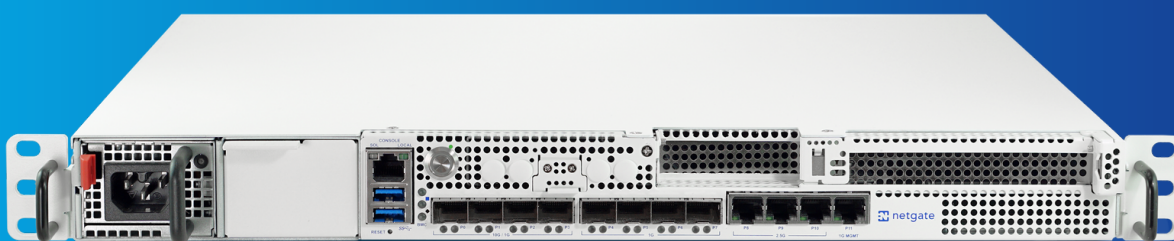


Netgate 8300

Security Gateway Appliance

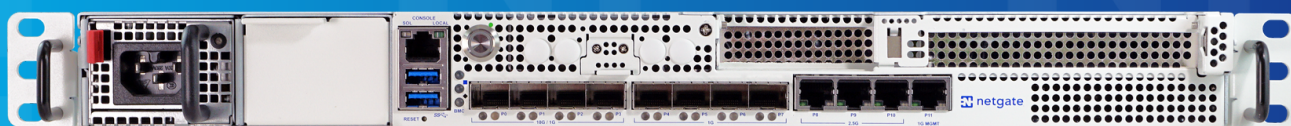
The Netgate® 8300 Security Gateway powered by pfSense® Plus software is tailored for medium to large business, xSP, MSP/MSSP with high connectivity and stability requirements. This unit is enterprise-ready, featuring Netgate's most expandable chassis and hot-swappable PSUs, ensuring mission critical reliability and ease of maintenance. This security gateway boasts a formidable 2.0 GHz, 8-core, 16-thread Intel® Xeon® D-1733NT processor with Intel AVX-512 for exceptional Firewall and VPN performance. The Netgate 8300 harnesses the power of Intel AVX-512 to accelerate VPN operations, bolstering throughput and reducing overhead while optimizing core firewall functions for enhanced network security and performance. With quad 10G SFP+ ports, quad 1G SFP ports, and triple 2.5G RJ-45 ports, plus expandability with 10G, 25G and 100G ports via PCIe cards, the Netgate 8300 future-proofs your network infrastructure, scaling effortlessly with your business.

The Netgate 8300 maximizes your investment by delivering high-performance throughput at an incredibly competitive cost per gigabit. Compared to the 1541, it boasts a remarkable 47% firewall performance gain, 100% improvement in VPN and routing throughput, and a 175% increase in port density.



iPerf3-BiDirectional tests were used to measure throughput.

This compact 1U chassis optimizes space efficiency in server rooms and data centers, ideal for mission-critical deployments requiring robust high availability options and hotswap dual-power capability. Redefine your network standards by offering superior scalability, performance, and cost efficiency that exceeds industry expectations with Netgate's 8300 Security Gateway.



Eight Core 2.0 GHz Intel Xeon CPU

Delivers 36 Gbps routing using iPerf3-bidirectional traffic and over 26 Gbps of firewall throughput

11 Independent 1G, 2.5G, and 10G ports

Maximum port flexibility - with 1G, 2.5G, and 10G Ethernet configurable as WAN or LAN across the combination of 11 RJ45 and SFP ports

Expandability: 1 x PCIe 3.0 x8 for half-length low profile cards and 1 x PCIe 4.0 x16 for full-height three-quarters length cards

Dual hot-swappable PSU bays

Base: 1 x Internal 500W PSU (hot-swappable) included, 110V/240V AC

MAX: 2 x Internal 500W PSU (hot-swappable) included, 110V/240V AC

SPECIFICATIONS

CPU	Intel Xeon D-1733NT, 8-core @ 2.0 GHz (Ice Lake Family)
Physical Network I/O Ports	(4) 10 GbE SFP+ cage ports (4) 1 GbE SFP cage ports (3) 2.5 GbE RJ-45 "direct" (unswitched) Intel i226 ethernet ports
Storage	512 GB NVMe 2280 M-Key M.2 SSD
Memory	16 GB DDR4, ECC, 2400MHz via 2x 8 GB 1G x 72-Bit UDIMM (expandable to 32 GB via 2x 16 GB UDIMM) MAX: 32 GB DDR4, ECC, 2400MHz via 2x 16 GB UDIMM
Console Port	1x "Cisco pinout" RJ45 console port Ships with 6 foot "Cisco" pinout RJ45 to USB-A console cable
USB Ports	2 x USB 3.2 jacks (USB-A female)
LED	3x RGB LEDs – software/firmware controllable via Aspeed AST2620 BMC
Enclosure	Sheet steel enclosure, powder-coated finish 16.92 x 13 x 1.72 inches 430 x 330 x 43.8 mm
Cooling	Active - 7x chassis fans at the rear of the enclosure
Environmental	0°C (32°F) to 40°C (104°F) - ambient
Power	Dual hot-swappable PSU bays. BASE: 1 x Internal 500W PSU 100V/240V AC input (hot-swappable) included AC Inlet: IEC320-C16 (3-pin) 1 x NEMA 5-15P to IEC320-C15 US power cord included MAX: 2 x Internal 500W PSU 100V/240V AC input (hot-swappable) included AC Inlet: IEC320-C16 (3-pin) 2 x NEMA 5-15P to IEC320-C15 US power cord included
Certifications	CE, CB, FCC (Class A), ISED (Class A), RoHS, UL, ACMA, UKCA, TAA (MAX only)

PERFORMANCE¹

iPerf3² Bidirectional Traffic

- L3 Forwarding: 36.7 Gbps
- Firewall: 26.8 Gbps
- IPsec VPN: 14.6 Gbps
(AES-GCM-128 w/AES-NI)

1. Refer to <https://www.netgate.com/products/appliances/> for the latest performance benchmarks. All performance tests are based upon maximum memory configuration and base model port configuration (no port expansion). Throughput measurements are based upon maximum bidirectional traffic across all available ports

2. Basic Traffic (Primarily Data Download): iPerf3 traffic is TCP: 1460-byte payload and TCP framing.

KEY HIGHLIGHTS

LOW TOTAL COST OF OWNERSHIP

- pfSense+ software updates and security patches are provided free of charge for the life of the product
- No artificial limits or add-ons are needed for full functionality
- Enjoy unlimited users, firewall rules, IPsec tunnels, dual WAN, and more without additional usage or feature-based pricing
- Low power requirements to save money
- Designed for an extended deployment lifetime

GROWS WITH YOU

- Get all the security features you need to protect your business
- Flexible configuration and support for multi-WAN, High Availability, VPN, load balancing, reporting and monitoring, etc
- Add optional packages such as Snort or Suricata for IDS/IPS and network security monitoring.

EASY GUI MANAGEMENT

- Intuitive web-based GUI includes :
- Configure advanced routing, firewall rules, VPNs, multi-WAN, and traffic shaping
- Dashboard with real-time traffic graphs
- Detailed diagnostics and reporting tools

SECURE REMOTE ACCESS

- Highly flexible, suitable for remote access and site-to-site connections, supporting a wide range of VPN types, including IPsec, OpenVPN, and WireGuard,
- Simplified multi-vendor supported VPN creation and management
- Secure connectivity for mobile and remote workers to the cloud
- Use the built-in Amazon VPC Wizard to easily establish VPN connections with your Amazon EC2 cloud.

BEST FOR

- Small to Medium-Sized Enterprise
- Large Enterprise Data Centers
- Managed Service Provider / Managed Security Service Provider (MSP/MSSP) On-Premises Appliance
- Edge-to-Cloud
- Anyone with High-Speed Multi-Gigabit Connections
- 25G and 100G Connectivity
- Many VPN Connections

SOFTWARE FEATURES

VPN:

- Site-to-site and remote access VPNs
- IPsec, OpenVPN, WireGuard®
- Split tunneling
- IPsec policy-based and route-based protocol support
- OpenVPN Data Channel Offload (DCO)
- IPsec acceleration with Intel IPsec Multi-Buffer (IIMB)
- IPsec acceleration with Intel QuickAssist Technology (QAT)

USER AUTHENTICATION & SYSTEM SECURITY:

- User and group-based privileges
- LDAP authentication
- Automatic lockout after repeated attempts
- Optional key-based SSH access
- Traffic and bandwidth shaping
- Captive portal with user data transfer quotas
- External RADIUS authentication [w/pkg]

CONFIGURATION:

- Setup wizard for initial configuration
- Encrypted automatic backup to Netgate server
- Easy configuration backup/restore
- Multi-language support

MONITORING & REPORTING:

- Customizable dashboard with widgets
- Local monitoring graphs
- Remote logging
- Network usage monitoring [w/pkg]
- Network diagnostics [w/pkg]

ROUTER:

- Policy-based routing
- Multiple IP addresses per interface
- Multiple WAN connections (with load balancing and failover)
- Complex NAT mapping (outbound and inbound)
- Concurrent IPv4 and IPv6 support
- Optional multi-node High Availability (HA) clustering
- Dynamic routing protocol support [w/pkg]

FIREWALL, ATTACK PREVENTION, AND CONTENT FILTERING:

- Extensive firewall rules
- Stateful filtering & packet inspection
- Per-interface configuration
- Ethernet (layer 2) rule-based packet filtering
- IP/DNS-based filtering and blacklisting [w/pkg]
- IDS/IPS with Snort-based packet analyzer [w/pkg]
- Layer 7 application detection and blocking [w/pkg]
- Reverse proxy [w/pkg]
- Geo/country blocking, IP block lists [w/pkg]

Learn more about the power of pfSense Plus software [here](https://www.netgate.com).

ADDITIONAL INFORMATION

- [Quick Start Guide and other Manuals](#)
- Ships with the latest version of pfSense Plus software
- Not PoE Compatible
- Ships with a USA power cord. Easily changed to non-US style by purchasing a IEC320-C15 (3 PIN) compatible power cord ([visual example](#))
- Ships with 6 foot "Cisco" pinout RJ45 to USB-A console cable

Your purchase includes many free services and free technical support, which will help you get started with pfSense Plus software:

- Complimentary software updates for the life of the product
- Complimentary 24x7 zero-to-ping support from Netgate Global Support
- Access to the continuously updated pfSense [online documentation](#)
- ACB: [Automatic Encrypted Configuration Backup Service](#)

SUPPORT INFORMATION

- Technical assistance is available from Netgate Global Support 24x7x365.
- [TAC Lite](#) is included with the purchase of your Netgate appliance.
- TAC Pro and TAC Enterprise SLA descriptions and pricing are available [here](#).
- Help is available on our community forum [here](#).

WARRANTY INFORMATION

- The one-year manufacturer's hardware warranty information is [here](#).
- Extended warranties for US customers are available from [Extend](#). More information on their offer and warranty policy can be viewed [here](#).
- [Standard 30-day return policy](#). Netgate does not sell seconds or returns. An open box fee may apply.
- All specifications subject to change without notice

Questions? We'd love to hear from you. Contact us at sales@netgate.com