

Netgate 1541 1U

Security Gateway Appliance

The Netgate 1541 1U Security Gateway with pfSense® Plus software is our most powerful solution for medium to large business data centers or server rooms.



It features a 2.1 GHz, 8-core, 16-thread Intel® Xeon® D-1541 processor with AES-NI, dual 10 Gbps SFP+ ports and dual 1 Gbps RJ45 ports. The CPIC-8955 Cryptographic Accelerator Card with QAT (QuickAssist Technology) can be added to offload encryption processing for improved VPN throughput performance. Other expansion options include a 2- or 4-Port Intel 10 Gbps card for additional SFP+ ports, or a 4-Port Intel 1 Gbps card for additional RJ45 ports.

Performance



With RAID configurations and high availability options, the Netgate 1541 is our most robust solution for high-performance throughput and/or mission-critical deployment needs.

**Best for:**

- Medium to Large Sized Networks with 1U rack mount cabinets
- Medium to Large Sized Branch Office with heavy loads
- Managed Service Providers (MSP) / Managed Security Service Provider (MSSP) On-Premises Appliance
- Anyone with High-Speed 10 Gigabit and/or 1 Gigabit connections
- Anyone with many VPN Connections
- Anyone with high speed connections who wish to configure IDS/IPS features
- Anyone requiring cryptographic acceleration / offload support with Quick Assist, delivered with CPIC Card

Software Features

pfSense Plus software is a free, open-source based firewall and router platform that is functionally competitive with expensive, proprietary commercial firewalls. The pfSense platform can be configured as a stateful packet filtering firewall, a LAN or WAN router, VPN appliance, DHCP server, DNS server, or can be configured for other applications and special purpose appliances.

This next generation pfSense security appliance features include:

- Stateful packet filtering firewall or pure router
- Routing policy per gateway and per-rule for multiple WAN, failover, load balancing
- Transparent layer 2 firewall
- Support for IPV6, NAT, BGP
- Captive portal with MAC filtering, RADIUS support, etc
- VPN: IPsec, OpenVPN, PPTP
- Dynamic DNS client
- DHCP Server and Relay functions
- PPPoE Server
- Reporting and monitoring features with real time information
- IPMI / BMC firewall

Technical Specifications

CPU	Intel "Xeon-DE" D-1541, 2.1 GHz FCBGA 1667 supported SoC
CPU Cores	8
Memory	16GB DDR4 ECC (upgradeable to 32 GB)
Options	
Storage	500 GB m.2 SATA SSD
Options	Expandable to 2x 256 GB SATA RAID 1
Network Interfaces	Dual LAN via Intel® i350-AM2 1 Gigabit Ethernet Dual LAN via SoC 10GBase-T Virtual Machine Device Queues reduce I/O overhead Supports 10GBASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output 1x Realtek RTL8201N PHY (dedicated IPMI)
Network Expansion	4-port Intel 1 Gbps 2-port SFP+ 10 Gbps
Options	4-port SFP+ 10 Gbps
USB Ports	2x 3.0 ports
Console Port	VGA
Max Active Connections	16 Million 32 Million with memory upgrade
Case	Standard 19" 1U rack mount
Dimensions	17.2" (437mm) x 1.7" (43mm) x 9.8" (250mm)
Cooling	Active
Operating Temperature	10°C (50°F) to 35°C (95°F)
Hardware Warranty	12 Months
Certifications	CE Emission, FCC (Class B), RoHS, UL, UKCA
Power Consumption	20W (idle)