**GreenLeyf** for your servers, networks, digital services & marketing needs.
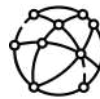
Networks

Network engineering, traffic analysis, shaping & forensics. Physical firewalls, VPN creation for private data access. MDM, Android Device Policy management and Google Apps Device Policy management / deployment. Hypervisor installation and configuration for virtualization. Pi-hole DNS sinkholing, NIDS installation & configuration for network threat detection, blocking and throttling. DNS management, SSL issuing, web page rules, WAF, caching, bot blocking & DoS protection.
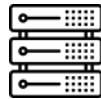
Servers

Building, monitoring & maintaining industrial grade solutions leveraging Debian for production environments.

Networks

Building business networks. Custom firewalls, NIDS, VPNs, hypervisors, forensics, traffic shaping & DNS management.

Services

Programming web apps & PWAs. Mail server creation, with sieve. Cloud server creation for business sensitive data.

Marketing

Google suite installation, optimized configuration and maintenance for web presence and growth.

Networks

We have a deep understanding of the OSI model & have built intrusive tech that is capable of disrupting WiFi routers. We do network forensics in WireShark, build firewalls using pfSense and create VPNs using OpenVPN for secure point-to-point communication.

Firewall & VPN

Creating physical firewalls using pfSense. Traffic analysis and shaping. Pi-hole DNS sinkholing using the Pi-hole project. VPN solutions using OpenVPN. Network intrusion detection using Snort.

Enterprise virtualization

Hypervisor installation using Proxmox for enterprise virtualization with web GUI for managing VMs, containers, software-defined storage, high-availability clustering, and multiple out-of-the-box tools on a single solution.

Network forensics

We perform network packet capturing using WireShark as our network forensics tool of choice. We audit packages to determine vulnerabilities & discover opportunities for increasing network reliability and strength.
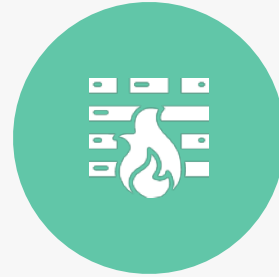
Offering **best-in-class,** next generation firewall configurations using the Netgate product line.

We only install **Netgate** products.
Visit the www.netgate.com website to see the comlpete product line.

Why pfSense? PfSense is the world's most trusted open source, NGFW (next-generation firewall) software that filters network traffic to protect an organization from internal and external threats. It includes stateful firewalls such as packet filtering, IPsec and SSL VPN support, network monitoring, and IP mapping features. Installable trusted packages allow for further customization at no cost. From NIDS (Network Intrusion Detection System) to infrastructure monitoring, pfSense is a dynamic NGFW that can identify & block a wide range of attacks, including probes, buffer overflows, invalid chuck sizes and much more- giving greater visibility across the entire attack surface. PfSense offers traffic shaping, Geo-blocking, DNS sinkholing, captive portal, load balancing, VPN, reports and logs, packet capturing and much more. Traditional firewalls are unable to offer protection at scale, and lead to poor user experience and a weak security profile.

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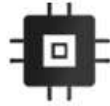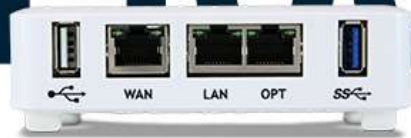NETGATE
1100

Business 35 *active* users

880Mbps
Router

656Mbps
Firewall

74Mbps
IPsec VPN

NETGATE 1100

Dual core ARM Cortex-A53 1.2 GHz — Delivers near gigabit routing of common home iPerf3 traffic and in excess of **650 Mbps** of firewall throughput.

3x 1 GbE Switched (WAN/LAN/OPT) Ports — Flexibly configure three separate 1 GbE switched ports for nearly a gigabit of bi-directional traffic.
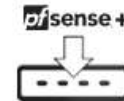
Compact Size and Low Power Draw — A compact form factor, low power draw, and silent operation allows it to run unnoticed when placed on a desktop, wall, or rack.

Get up and running fast. Simply unbox it and start customizing pfSense Plus software to your secure networking needs.

Pre-loaded with pfSense Plus software

Get the high performance you expect from a device of this kind, but with low power draw and silent passive cooling.

Passive Cooling System

DDR4 memory allows more stable, higher transfer rates for memory intensive applications (e.g. IDS/IPS).

1GB DDR4 RAM

NETGATE 1100

SoC	**Marvell Armada 3720LP (88F3720) dual core ARM Cortex A53 processor @ 1.2GHz**
System Memory	**1 GB DDR4 RAM on board**
Storage	**8 GB EMMC**
Network Interfaces	**1x Marvell 88E6141 networking switch** **3x GbE Ethernet (WAN/LAN/OPT)** **1x Mini PCIe slot(1)**
USB	**1x USB 3.0** **1x USB 2.0** **1x Micro USB port (console)**

Misc	**Reset button, heatsink, 3 Status LED**
Power	**12V 2A DC 5.5mm x 2.1mm x 10mm jack, center pin positive (power over USB not supported)**
Power Consumption	**3.48W (idle)**
Operating Temperature	**0°C (32°F) to 45°C (113°F)**
Enclosure	**Plastic 110 x 84.6 x 31.75 mm (4.33" x 3.33" x 1.25")**
Hardware Warranty	**1 year standard with purchase**

NETGATE 5100

Business 158 *active* users

3.8 Gbps
Router

3.6 Gbps
Firewall

923 Mbps
IPsec VPN

NETGATE 5100

Quad Core 2.2 GHz Intel® Atom CPU

Significantly improves throughput, AES-NI performance, and increases RAM performance by up to 50%.

6 Independent 1 GbE Ports

Get up to **3.8 Gbps** / **1.3 Mpps** throughput with real-world IMIX traffic across six flexibly configurable ports.
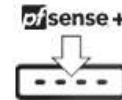
Intel AES-NI Compatibility

Ensures all data sent over your network is encrypted so it can't be easily read or modified, without compromising throughput.

You want a working appliance, not a kit. Simply unbox it and start customizing pfSense Plus software to your secure networking needs.

Pre-loaded with pfSense Plus Software

Get the high performance you expect from a device this powerful, but with the low power draw and quiet passive cooling of a smaller device.

Passive Cooling System

DDR4 memory allows more stable, higher transfer rates for memory intensive applications (e.g. IDS/IPS). Our hardware flexibility allows you to upgrade your memory at anytime, future-proofing this appliance.

4GB DDR4 RAM
(Upgradeable to 16GB)

CPU	Intel "Denverton" Atom C3558 2.2 GHz with Intel QuickAssist & AES-NI
CPU Cores	4 Cores
Networking	4x GbE RJ45 Intel® SoC Integrated MAC 2 x GbE RJ45 Intel® i210
Storage	8 GB eMMC Flash onboard
Memory	4 GB DDR4 2400 MHz DIMM (max 16 GB, 1x 260-pin SODIMM)

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Storage	8 GB eMMC Flash onboard
Memory	4 GB DDR4 2400 MHz DIMM (max 16 GB, 1x 260-pin SODIMM)
Expansion	1x Mini-PCIe (PCIe), 1x M.2 2242 Keyed B/B+M (USB 3.0/SATA), 1x Nano SIM

NETGATE 1541

Business **725** *active* users

17.4Gbps
Router

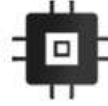14.6Gbps
Firewall

2.82Gbps
IPsec VPN

NETGATE 1541

Eight Core Intel Xeon® 2.1 GHz CPU

2X+ throughput performance increase over the XG-7100 for the most demanding data center / server room applications

Up to 8x Fully Independent Ports

Get up to **15.4 Gbps / 5.3 Mpps** of enterprise-grade IMIX traffic throughput across ten flexibly configurable ports.
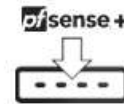
Up to 32 Million Max Connections

Scale your active connections up to 32 million with expandable memory.

Get up and running fast. Simply unbox it and start customizing pfSense Plus software to your secure networking needs.

Pre-loaded with pfSense Plus software

Connect to copper and/or Ethernet cables of different types and speeds and expand your network interface with an additional 4-port Intel GbE and 2-Port Chelsio 10 GbE.

10GBase-T Ports

DDR4 memory allows stable, high transfer rates for memory intensive applications (e.g. IDS/IPS).

16GB DDR4 RAM
(Expandable to 32GB)

NETGATE 1541

CPU	Intel "Xeon-DE" D-1541, 2.1 GHz FCBGA 1667 supported SoC	**Memory**	32 GB DDR4 RDIMM	
CPU Cores	Eight Cores, 45W	**Expansion**	1x PCI-E 3.0 x 16 (in x4) AOC Slot 6x SATA3 ports	

LED	Power LED Hard drive activity LED 2x Network activity LEDs System Overheat LED Information LED (temp., status)
Enclosure	19" 1U Rack Mount - CSE-505-203B
Form Factor	1U 1.7"x17.2"x9.8"
Cooling	200W Low-noise PS with PFC: Active CPU fan, 40mm chassis fan
Power	1x SATA DOM power connector 100-240V, 50-60Hz, 2.6 Amp MAX AC Inlet: IEC320-C14 (3 PIN) Power Cord: NEMA 5-15P to IEC320-Cxx
Environmental	10°C to 35°C Operating Temp 8% to 90% Operating Relative Humidity (non-condensing)

Network	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)
Other Ports	1x BMC integrated ASPEED AST2400 1x IPMI Port 1x VGA Port 1x Fast UART 16550 Serial Port (header)
USB Ports	2x USB 3.0 ports
Storage	256 GB Micron M.2 SSD*

greenleyf.com

What's next?

Visit **greenleyf.com** & scroll down to the contact section to touch base with our technician after you've chosen your product of choice.

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Servers

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