Lightning Wire Labs

IPFire Nano Appliance

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Fanless, fibre-ready, and shipped with IPFire pre-installed and pre-tested by the people who build it.

Everything On Your Network, Protected At Full Speed

Your connection got faster. Your firewall should not be the reason it doesn't feel like it.

The Nano inspects traffic at multi-gigabit speeds, so a fibre line stays a fibre line — even with Intrusion Prevention watching every packet, the DNS Firewall filtering every lookup, and a VPN carrying your remote users. Everything on the network passes through it: the laptops and phones you know about, and the smart TV, the thermostat, and the camera you would rather keep an eye on.

See What Your Network Is Actually Doing

A router tells you nothing. This tells you everything.

Watch traffic build up per host and per connection in real time. Block malicious and unwanted domains at the resolver, before a connection is ever attempted. Stop intrusion attempts as they happen. Separate your work machines, your family's devices, and everything else onto their own networks, and decide exactly what may talk to what.

Reach Your Network From Anywhere

Hardware-accelerated VPN turns a remote laptop into a machine that behaves as though it were sitting in the office — fast enough that you stop noticing it is there. Link branch offices together over the internet, and give your team access to the systems they need without exposing anything to the world.

Made To Be Forgotten

Silent, because there is no fan. Cool, because the aluminium housing is the heat sink. It draws about as much power as a bright light bulb, fits on a shelf or behind a monitor, and asks nothing of you once it is running.

Put it somewhere out of the way and let it do its job.

1. **Four 2.5 Gigabit ports** — fast enough to sit in front of a fibre line without slowing it down
2. **2.4 Gbit/s firewall throughput** — measured on our own bench, with real traffic
3. **Completely silent** — fanless aluminium chassis, nothing to hear and nothing to clean out
4. **Around 6 W** — a few euros a year to leave running
5. **Hardware-accelerated VPN** — remote users and branch offices at full speed
6. **IPFire, pre-installed** — supported by the developers who build it, with no licences, no feature unlocks, and no subscription to renew

Designed For

1. **Home offices and enthusiasts** on gigabit and fibre connections, where a rackmount appliance would be overkill and an audible fan would be unbearable
2. **Small businesses** that need a firewall they can rely on without a full-time person to run it
3. **Branch offices and remote sites** that need to reach head office securely over a VPN

4. **Service providers** rolling out one standard, supported platform across many locations

   Every unit ships with IPFire pre-installed, supported by the developers who build it — and every appliance sold funds the continued development of the distribution running on it.

Specifications

1. Intel® N100 Quad-Core Processor, up to 3.4 GHz (Alder Lake-N)
2. AES-NI, SHA, and AVX2 Instruction Set Extensions
3. 4× Intel® i226-V 2.5 GbE Controllers (100/1000/2500 Mbit/s)
4. 8 GB DDR4 Memory
5. 128 GB M.2 SATA SSD, plus one free 2.5” SATA bay
6. Graphical Console via HDMI or Display Port, Serial Console via RJ45
7. 1x USB 3.1, 3x USB 2.0
8. Power Switch, Reset Button, DC Input
9. SIM Card Slot
10. AMI UEFI with TPM 2.0
11. IPFire, pre-installed

WiFi Module (Optional)

1. WiFi 7 2x2 MU-MIMO
2. 802.11be Tri-Band 2.4/5/6 GHz (only one supported at a time)
3. Supports 20/40/80/160 MHz channel bandwidth and up to 320 MHz on 6 GHz

Performance & Throughput

1. Firewall Throughput (fireperf): 2.4 GBit/s

Power Consumption & Operation Conditions

1. Power Consumption: 6 W (typical load) – <10 W (full load)
2. Input Voltage: 12 V DC, external power supply included
3. Cooling: passive, fanless aluminium chassis
4. Operating Temperature: 0–40 °C / 32–104 °F
5. Humidity: 0 %–90 %, non-condensing

What’s In The Box?

1. IPFire Nano Appliance
2. Power Supply with Power Lead
3. SATA Power/Data Cable
4. Wall Mount Bracket
5. Setup Guide

Dimensions	H: 42mm, W: 144mm, L: 136mm
Weight	790 g
Warranty	2 years

Lightning Wire Labs GmbH
Gerhardstraße 8
45711 Datteln
Germany

https://www.lightningwirelabs.com

Phone
+49 2363 60350
+1 650-272-3300
Fax
+49 2363 60359