

PRODUCT DEEP DIVE

Netgate 2100 with pfSense+ Software

The Compact Powerhouse for Edge, SMB, and Remote Deployments.



Unbeatable performance and flexibility in a desktop footprint.

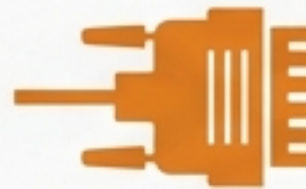


The Pound-for-Pound Security Leader.

Designed for deployments requiring high compute resources without the rack-mount footprint. The Netgate 2100 is the ideal Security Gateway Appliance for homes, remote workers, and small businesses.



Performance: Supports multiple add-on packages and high-speed VPNs.

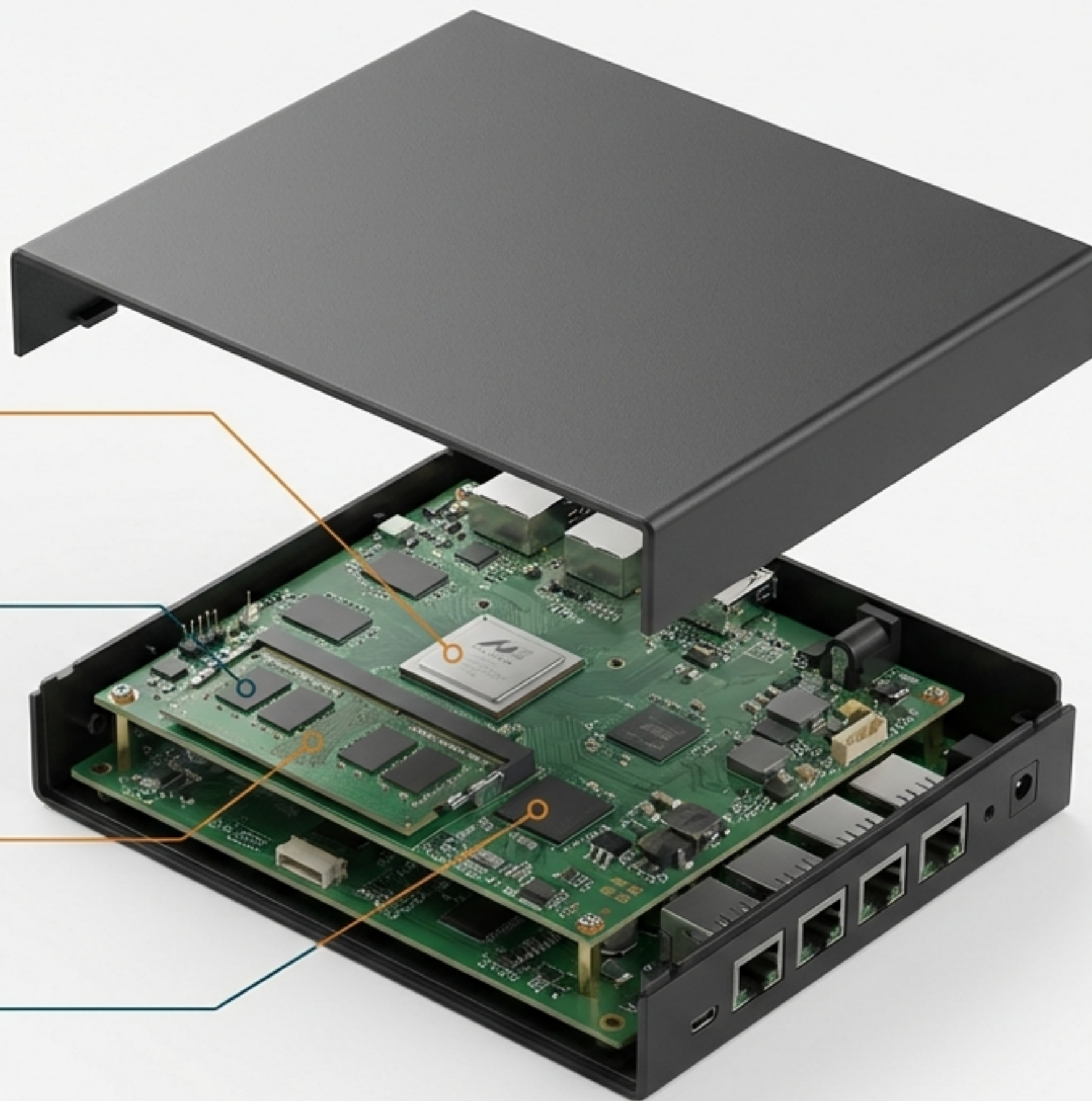


Flexibility: Repurposable ports and expansion options.



Efficiency: Low power draw with silent passive cooling.

Engineering the Core



Processor

Dual Core ARM Cortex A53 @
1.2 GHz (Marvell Armada 3720)

Memory

4 GB DDR4 RAM – Ensures stability
for memory-intensive applications
like IDS/IPS

Storage

8 GB eMMC Flash onboard

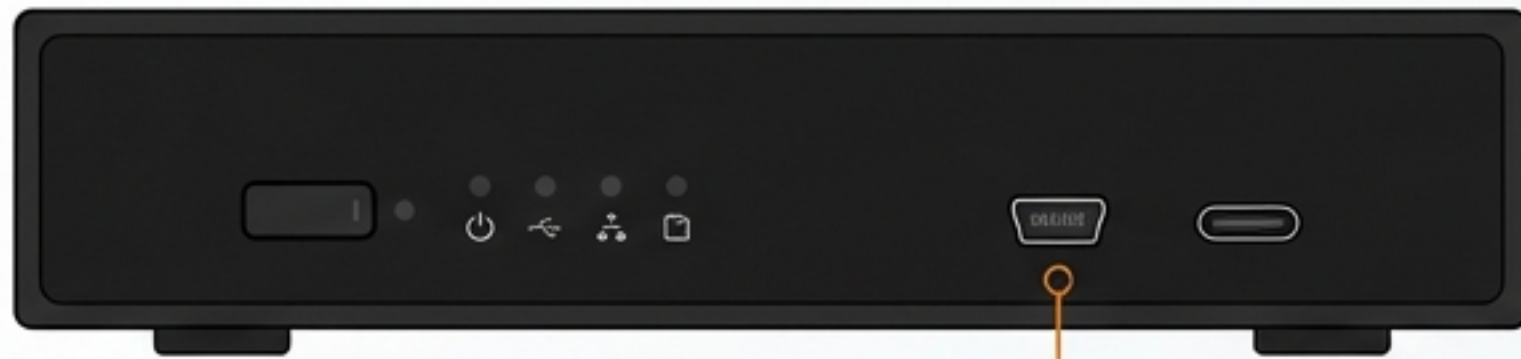
Architecture

64-bit ARMv8-A with NEON SIMD and FPU

Connectivity & Physical Interface

A flexible 5-port configuration designed to adapt to various network topologies.

FRONT PANEL



Console: MiniUSB port

REAR PANEL



WAN: 1x Dedicated 1 GbE RJ45 / SFP Combo Port (flexible fibre or copper connection)

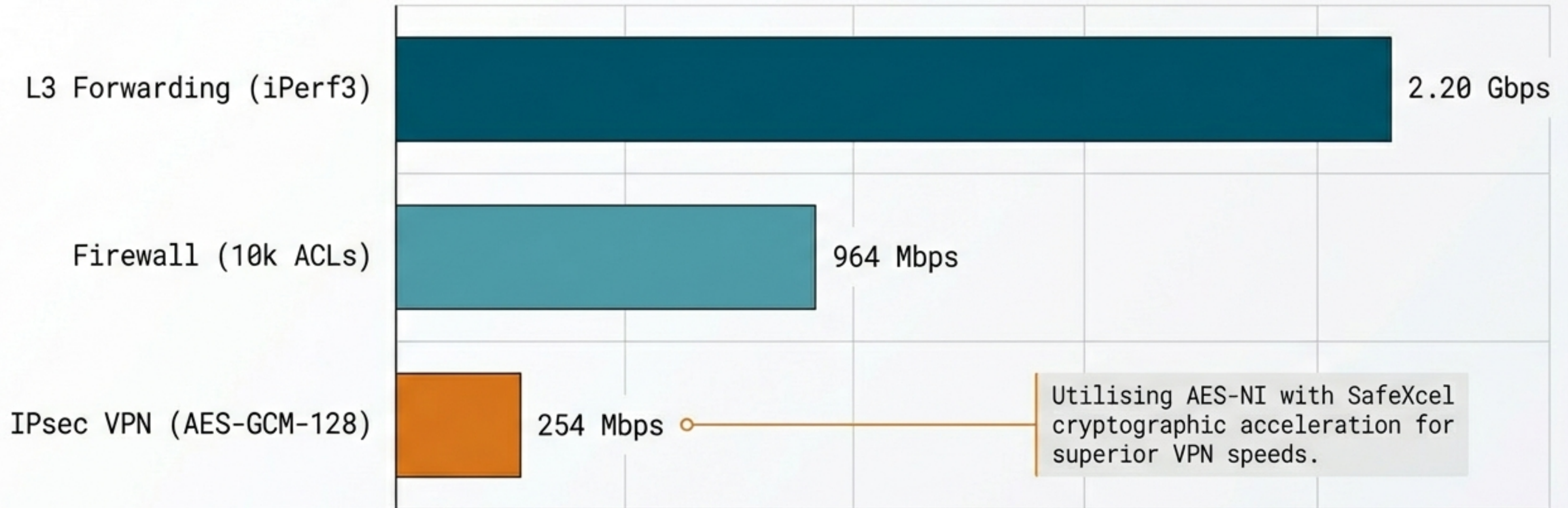
LAN: 4x 1 GbE Marvell Switched Ports (88E6141).

Note: LAN ports can be repurposed as additional WANs.

Design Note: Silent passive cooling system with efficient thermal management.

Performance Metrics & Throughput

Benchmarked with pfSense Plus software version 22.01.



The pfSense+ Software Advantage

Enterprise-grade security without the proprietary price tag. pfSense+ delivers the reliability and business assurance expected from leading secure networking applications.



- ✓ **Zero-to-Ping:** Complimentary 24x7 support included.
- ✓ **Proven Reliability:** Continuous updates and extensive documentation.
- ✓ **Cost Efficiency:** A fraction of the cost of proprietary alternatives.

Comprehensive Control & Security



ROUTING

- Policy-based routing
- Multiple WAN (Load balancing & Failover)
- Concurrent IPv4/IPv6



SECURITY

- Stateful packet inspection
- Snort-based IDS/IPS (via pkg)
- Layer 7 application detection



FILTERING

- Geo-blocking
- IP block lists
- Reverse proxy capabilities

Secure Remote Connectivity



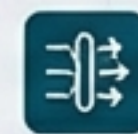
Connect offices, mobile workers, and cloud environments via encrypted Virtual Private Networks.



IPsec: Route-based and policy-based support.



OpenVPN: Includes Data Channel Offload (DCO) support.

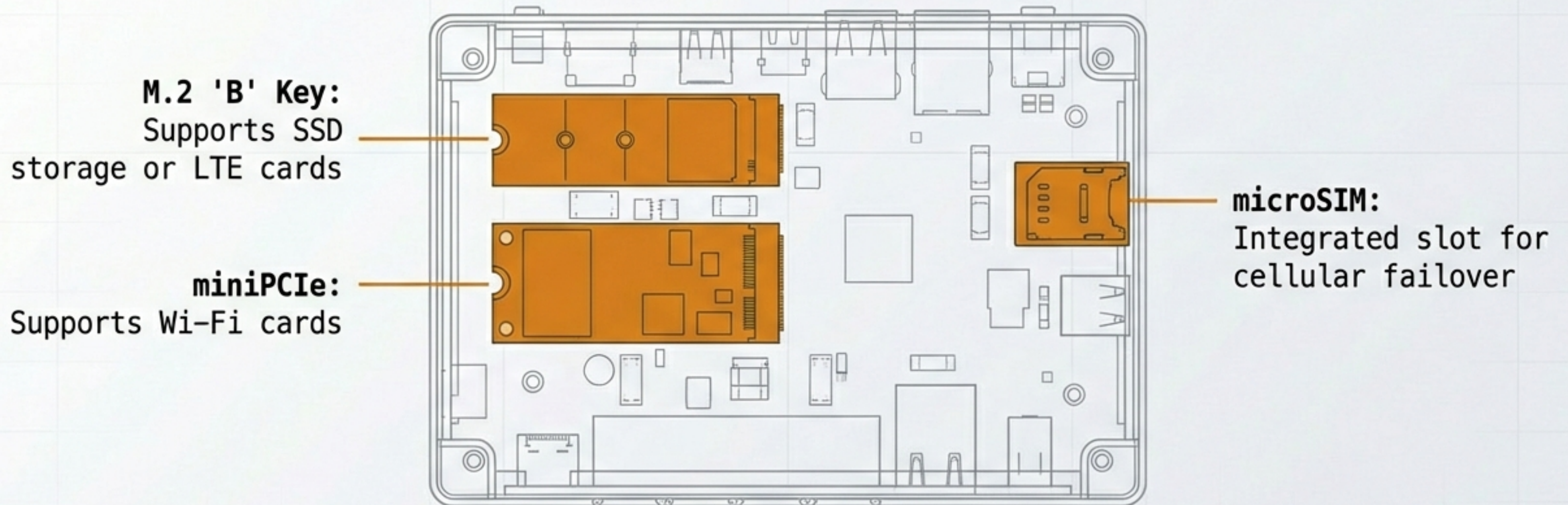


WireGuard®: Modern, high-performance tunnelling.

Features: Split tunnelling, Intel IPsec Multi-Buffer (IIMB), Amazon VPC Wizard.

Expandability & Customisation

The Netgate 2100 is designed to grow with your deployment needs, offering internal slots for DIY upgrades.



Storage Option: Upgradeable to 128 GB M.2 SATA 2242 SSD.



Deployment Scenario: The Remote Professional

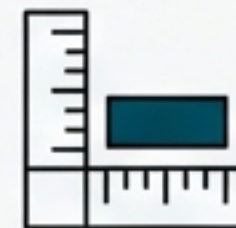
Enterprise security for the home office.



Silent Operation: Fanless design is perfect for desktop environments.



VPN Performance: 254 Mbps IPsec throughput supports heavy file transfers and video conferencing.



Compact Size: 42.2 mm tall x 172.7 mm wide — minimal desk real estate required.



Deployment Scenario: SMB & Edge Networks

The backbone of small business connectivity.



High Capacity: 1 Million maximum active connections.



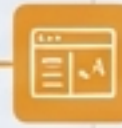
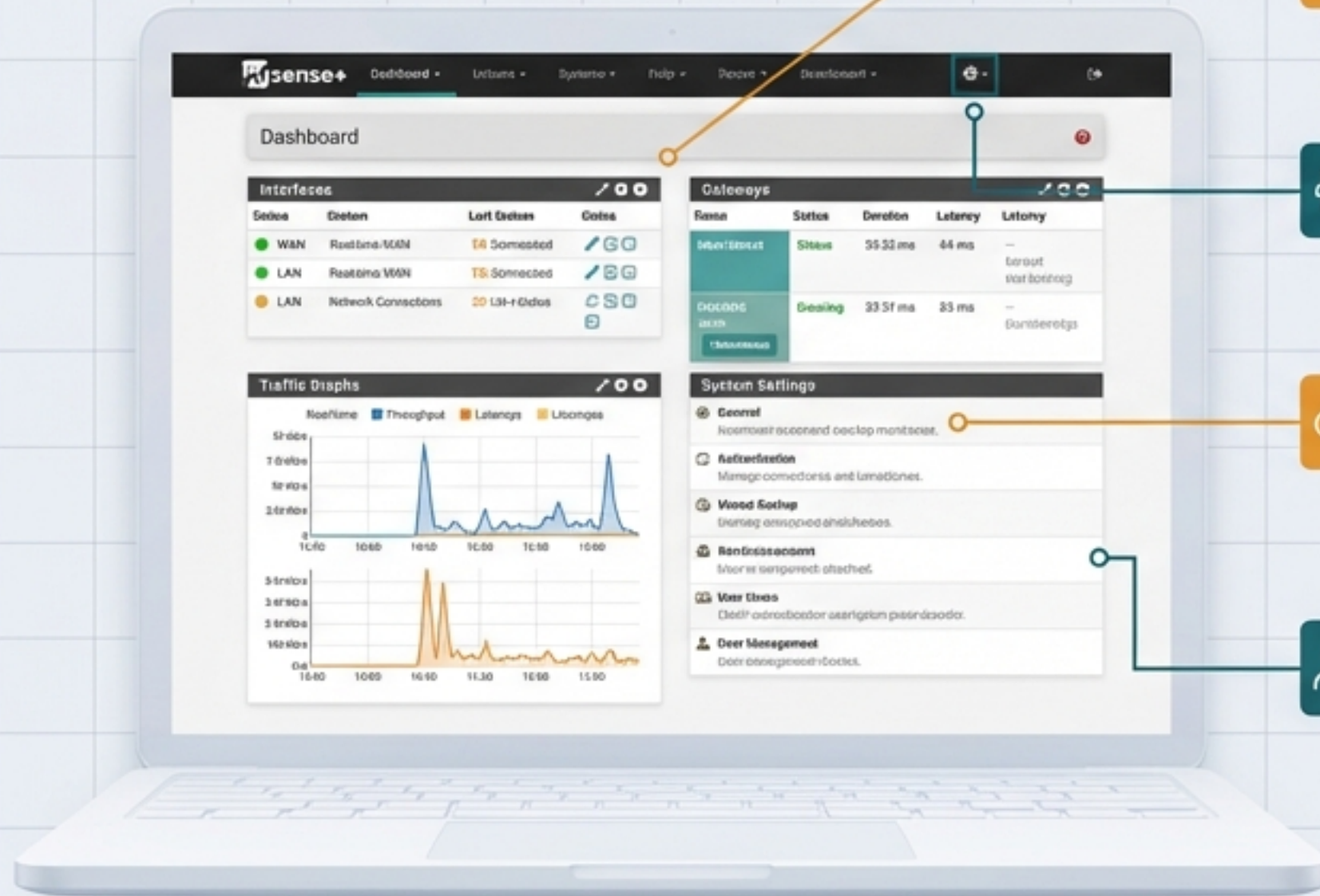
Resilience: Multi-WAN failover ensures business continuity.



Traffic Management: Traffic shaping and Load Balancing for optimal bandwidth usage.



Guest Access: Captive portal with user data quotas.



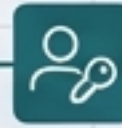
Dashboard:
Customizable widgets for at-a-glance monitoring.



Setup:
Integrated Setup Wizard for initial configuration.



Backup:
Automatic Encrypted Configuration Backup (ACB) to Netgate servers.







User Control: LDAP authentication and user/group privileges.

Simplified Management



No arcane command lines required. Manage all settings through a secure, intuitive web-based interface.

Low Total Cost of Ownership (TCO)



-  **No Artificial Limits:** Unlimited users, unlimited firewall rules, unlimited IPsec tunnels.
-  **No Hidden Fees:** No feature-based pricing add-ons.
-  **Longevity:** No moving parts to wear out; designed for a long deployment life.
-  **Price:** Competitive entry point (approx. ₹53,107).

Technical Specifications Summary

CPU	 Marvell Armada 3720 (ARMv8-A Cortex A53 @ 1.2GHz)
Cores	Dual Core
Physical Dimensions	172.7 mm x 108 mm x 42.2 mm
Mounting	Desktop / Wall-mountable keyholes
Power	 12V 2.0A External ITE P/S (AC 100-240V). Low power draw.
Operating Temp	0°C to 50°C
Certifications	CE, FCC (Class B), RoHS, UL, RCM, VCCI, UKCA

Backed by Netgate

The perfect answer for secure networking at a fraction of the cost.



Included Support: TAC Lite included (24x7 availability).



Community: Access to the extensive Netgate community forum.



Warranty: One-year manufacturer's hardware warranty.

