

neuronova

DOING MORE WITH LESS



Ultra-low-power analog neuromorphic processor (2x2 mm², < 1μW)

A new computing paradigm for always-on intelligence beyond digital limits.



European silicon

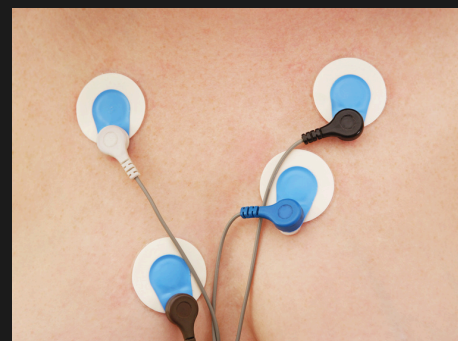
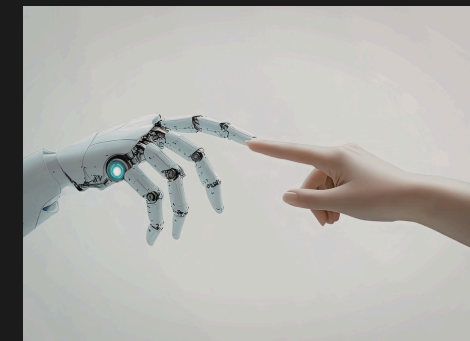
PERCEPTION OF THE PHYSICAL WORLD

Human world perception → Senses



Input → sensorial stimuli
Processing → brain intelligence

Technology world perception → Sensors



Input → Signal from sensor
Processing → AI processor



>40B Units of sensors sold in 2025

100 B Expected units in 2030

Toward a “trillion-sensor economy” that needs intelligence

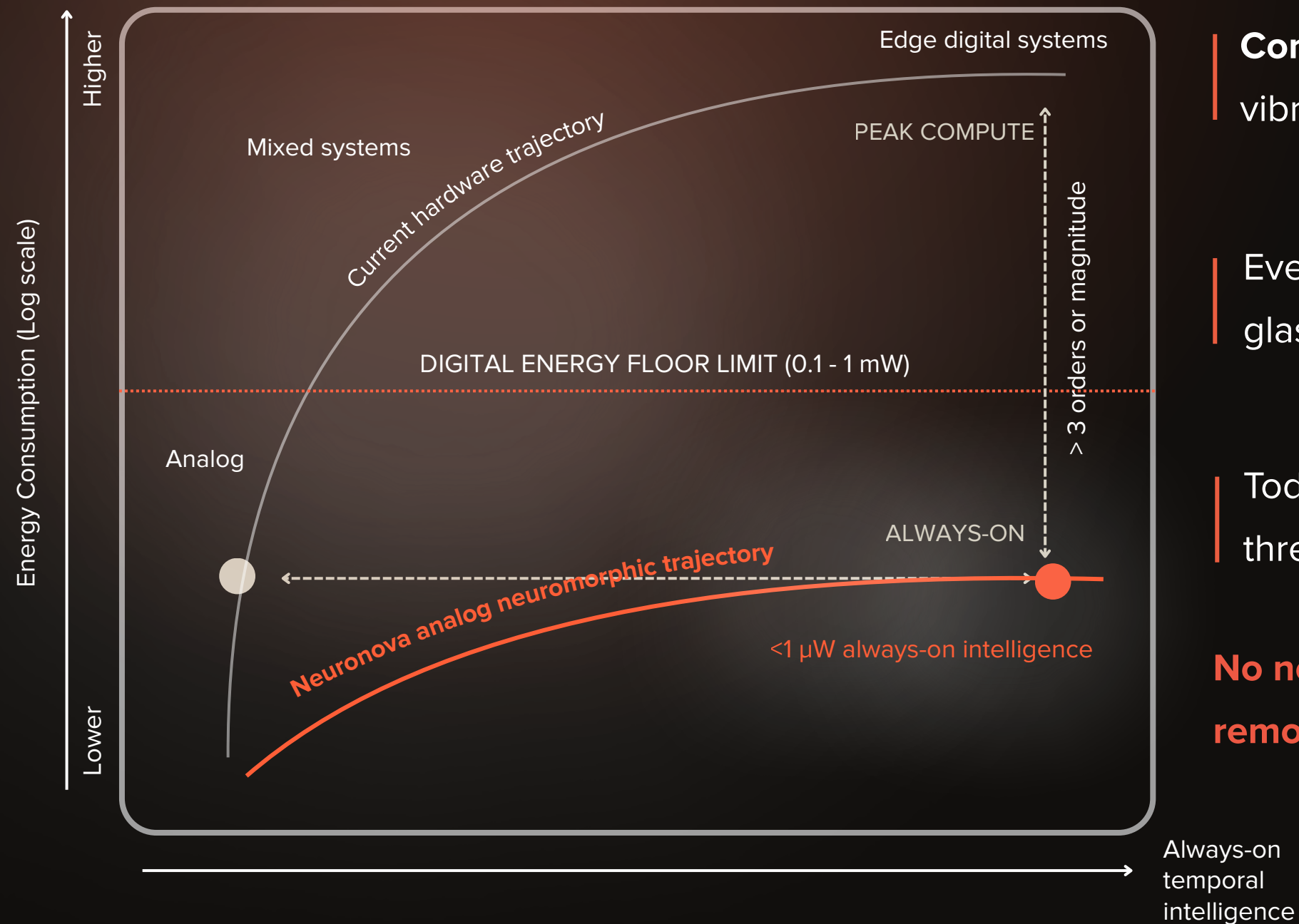
Must-have elements

Continuous, always-on sensors (input)

Continuous, always-on intelligence (processing)



ALWAYS-ON AI HITS THE ENERGY FLOOR



Continuous perception of temporal signals - voice, biosignals, motion, vibrations - **requires an intelligent chip that never sleeps.**

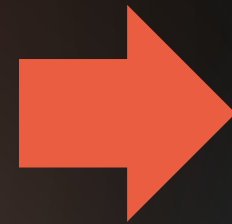
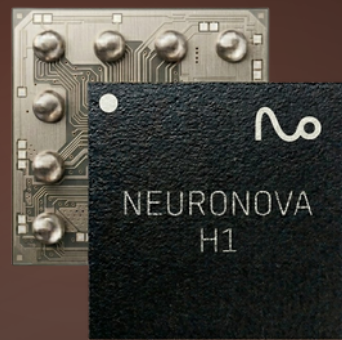
Every digital chip today hits an energy floor - keeping it always-on drains a smart-glasses battery in 4 hours, a smartwatch in a day, an IoT sensor in weeks.

Today's analog chips below the floor only condition signals: filtering, amplification, threshold detection. No inference. No recognition. **No intelligence.**

No neuromorphic or in-memory computing, quantization, or accelerators can remove this energy floor.

H1: OUR FIRST PRODUCT FOR ALWAYS-ON AUDIO

H1: Always-on processor < 1 uW



Smartglasses



4X

Up to battery extension

Whole day use while adding more always-on sensing features, better UX

Earbuds



18X

Lower Standby power consumption

1.6-2x

Battery life in mixed profile

-9%

Lower BOM

Hearing aids



2X

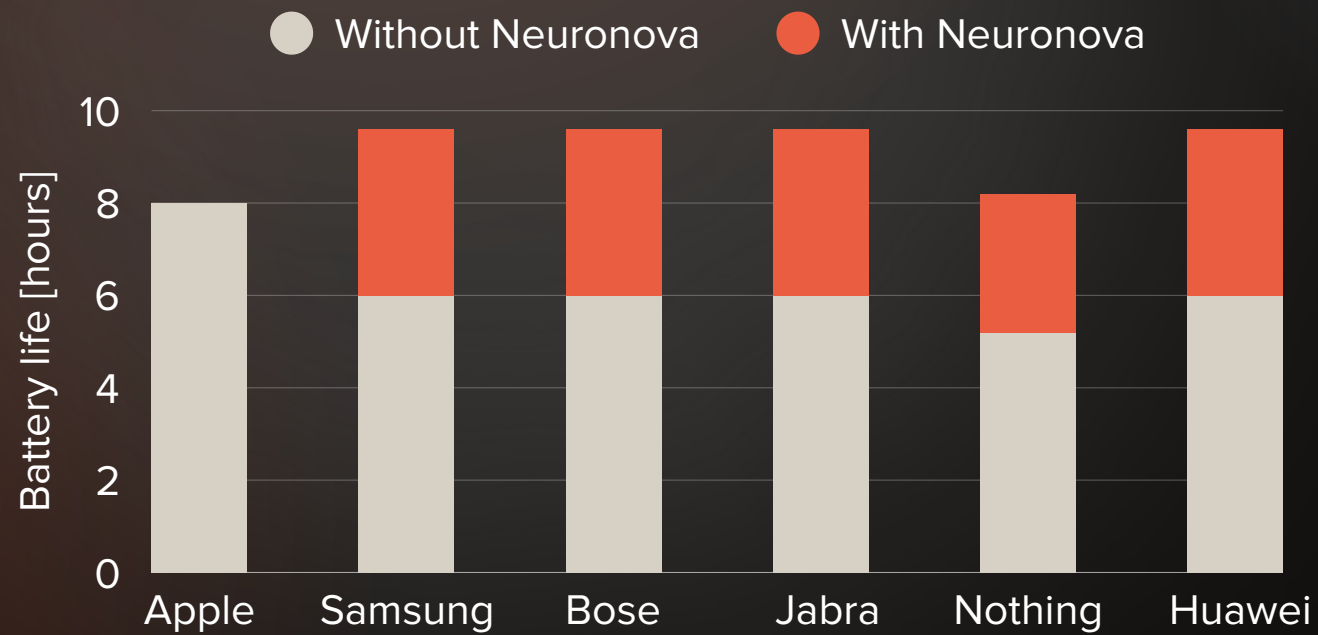
Up to battery extension

AI

On-device without internet

Advanced on-device features and better UX.

Matching Apple battery duration with one chip + headroom for new always-on features inside the earbuds (sport tracking, ECG, step counter)

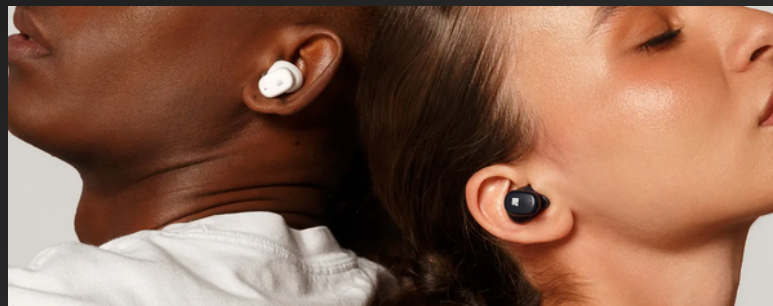


Figures derived from system-level evaluation, results vary by platform and usage profile.

CORPORATE NEEDS

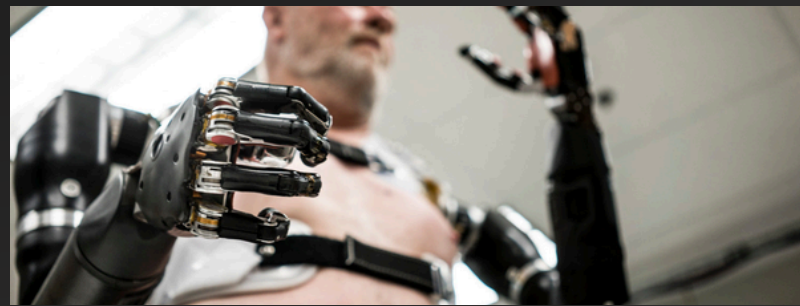
SMART DEVICES

Advanced Functions: Smaller energy footprint allows for new features inside constrained devices creating space for advanced functions



ROBOTICS & AUTOMOTIVE

Ultra-low-latency local sensing for fast detection of mechanical or acoustic events, reducing system wake-ups and data bandwidth.



INDUSTRIAL SENSING

Batteryless IoT sensors: Continuous acoustic and vibration monitoring for condition monitoring and anomaly detection. Always-on sensing with event-based outputs and minimal data movement.



APPLICATION
LAYER

SENSOR-LEVEL INTEGRATION

Native sensor-level integration enables always-on front-end intelligence, allowing sensors to output events and features instead of raw data.

Particularly suited for distributed sensing nodes where power, maintenance and data transmission are constrained.



FOUNDATIONAL
LAYER

THE TEAM



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Founder & AI Lead



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Founder & CTO



ADVISORY BOARD



Prof. Giorgio Ferrari
Scientific advisor



Roberto Bez
Semicon Industrial advisor



Andrew Loxley
Strategy & US network



Dimitri Singer
GTM & strategy

+ 7 full time employees

Founders published on:



6 Chips already developed

+500 Citations by journals

>30 Cumulative years of Experience in the field



WHAT YOU CAN DO RIGHT NOW

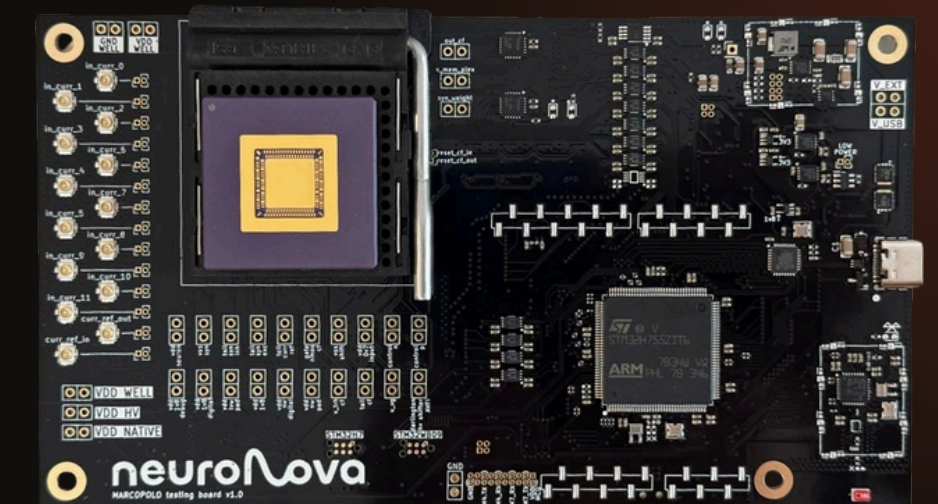
Test our chip for your use case or use our models park of pretrained models using our SDK:

- Voice activity detection: 99% precision 90.1% recall
- Keyword Spotting: 91% accuracy
- Acoustic Scene Detection: 96% accuracy

Request our Evaluation Kit for hardware validation and real-time inference on your preferred use case:

- <30 min from download to first experiment
- All experiments scriptable in Python
- Sensor modules available

Start chatting with our CEO about our next seed round (opening soon!)



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neuronova

Always-on intelligence, built for the physical world.

Company incorporated

July 2024

Pre-seed round 1.5 M€

October 2024

Investors



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