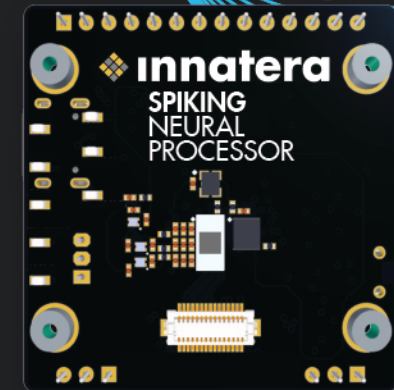


ABOUT INNATERA



Innatera is a trailblazing developer of ultra-efficient neuromorphic processors. Spun out of the Delft University of Technology in 2018, it pioneers a revolutionary computing solution that enables next-generation AI and signal processing capabilities to be co-located with sensors in battery-powered and power-limited devices.

Built on over a decade of research into the intersection of neuroscience and computer architecture, Innatera's proprietary Spiking Neural Processor architecture delivers ground-breaking cognition performance within a narrow power envelope. It delivers an unprecedented combination of ultra-low power consumption and short response latency for pattern recognition in sensor data streams. Innatera's solutions are a critical enabler of always-on sensing applications in consumer, industrial, and Internet-of-Things market verticals.



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The always-on processor for sensors

World's first ultra-low power neuromorphic processor for Ambient Intelligence

500x lower energy than conventional CPU/DSP/AI

100x shorter latency than conventional solutions

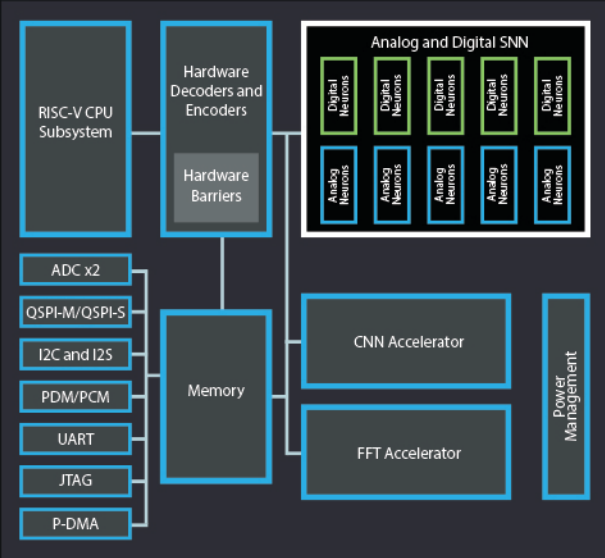
PyTorch integrated SDK for fast development



www.innatera.com

OUR PRODUCTS

With versatile silicon, a comprehensive SDK, AI model library, and application software, Innatera provides end-to-end solutions for a wide range of applications and sensor types



SPIKING NEURAL PROCESSOR

An ultra-low power neuromorphic SoC for always-on AI at the edge



Nimble on-chip RISC-V CPU

32-bit RISC-V core, 384 KB embedded SRAM



Fast ultra-low power processing

Analog mixed signal processing with event-driven spiking neural networks for sub-1mw pattern recognition



Multi-faceted processing capabilities

Efficiently implement SNNs, CNNs, and conventional processing in the same device



Diverse interfaces

QSPI-M, QSPI-S, JTAG, I2C, UART, GPIO, Analog in, I2S, PDM2PCM, CIF



Advanced power management

Three sleep modes to enable power-efficient operation across the application lifecycle

T1 EVALUATION KIT

Explore the power-performance benefits of neuromorphic processing



Comprehensive platform

Ready to use platform for application prototyping and profiling



Accessible

Built in software for developing applications



Wide interface

Standard interfaces supporting a range of sensors

TALAMO SDK

Powerful software environment for application development and deployment



Pytorch front-end

Develop and train models with the industry-standard PyTorch ML framework, use powerful measurement and visualization capabilities of Tensorboard



Comprehensive

Wide-range of models, network topologies, libraries for application development

AMBIENT INTELLIGENCE

We are pioneering a new era of invisible, intuitive computing. Our technology represents a radical leap forward with the introduction of the world's first ultra-efficient neuromorphic microprocessor for sensors. In an ambiently intelligent world, technology does not merely await our requests; it quietly comprehends our needs, perceives our surroundings, and responds appropriately, often before we become aware of its presence. This approach reimagines our relationship with computing, where systems seamlessly integrate into the background of our daily lives.

APPLICATIONS



Radar



Microphone



Image sensors



ECG/PPG



Ultrasonic sensors



IMU