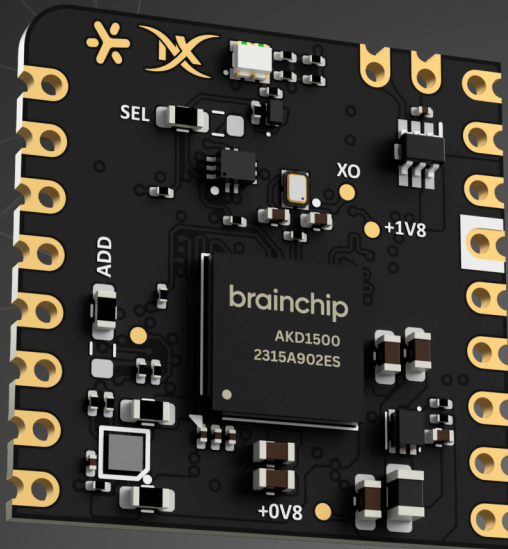


THE BRAIN BOARD 1500

“Connect it to your MCU sensor board, run spiking neural network inference, and measure the energy efficiency of neuromorphic AI, directly, at the edge.”



AI Accelerator	BrainChip AKD1500 co-processor and neural-network accelerator for Akida / SNN-oriented edge inference
Form factor	Tiny dimensions for embedded systems. Arduino Nicla family footprint: 2.29 × 2.29 cm / 0.90 × 0.90 in.
Host interface	SPI / QSPI host interface. Single or quad SPI modes up to 60 MHz, with I2C-controlled mode configuration.
Model storage	4 MB on-board flash storage for AKD1500 model files and related artifacts. 8 MB flash upgrade version upon request.
Power input	3.0 to 5.5 V input with power-supply OR-ing for flexible host setup, one-pin GPIO power ON/OFF sequencing.
Current Monitor	On-board Arduino-library-supported two-channel power monitor for AKD1500 energy profiling SNN inference.
Low-power	AKD1500 sleep in mW-class operation; full AKD1500 OFF state targeted below 50 μ A.
Debug / UX	Red/green power sequencing LEDs, blue talk-through LED, accessible I2C pull-ups and address through 0503 jumpers.
Open Source Library UX	Plug board → install library → load .fbz model → stream sensor data → run inference → log power efficiency