brainchip™ Akida™ Cloud Product Brief

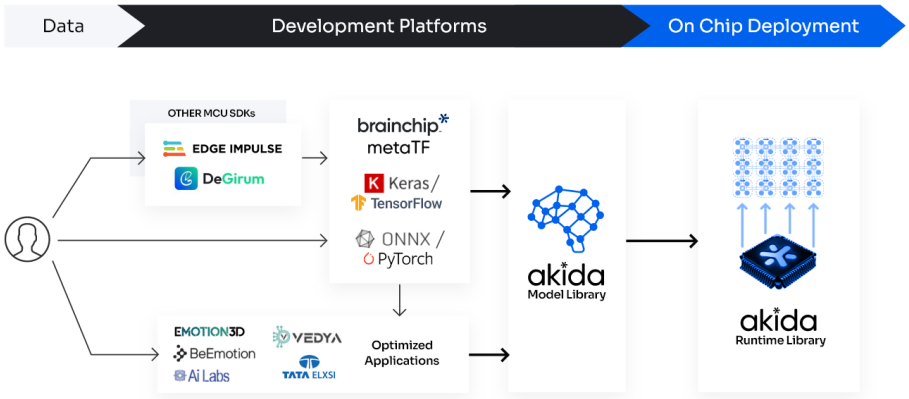
Akida Cloud is a service that provides a pre-configured environment for system and chip designers to evaluate the efficiency and performance of neural models on remotely hosted BrainChip Akida IP. It's a platform for demonstrating, emulating, and validating Akida IP easily and efficiently.

The service allows developers to showcase the efficiency of **BrainChip's Akida AI neural processing acceleration**, which is specifically designed for ultra-low-power, real-time AI at the edge. The Akida IP is scalable, configurable, and programmable for both Convolutional Neural Networks (CNNs) and Temporal Event-Based Neural Networks (TENNs).By providing access to various Akida IP configurations on remotely hosted hardware, the service allows users to verify a model's efficiency and performance before committing to silicon. Delivered through a secure cloud interface, this turnkey solution enables users to immediately test the capabilities and efficiency of the Akida IP without any local hardware or software setup.

Features

- Reserve Time Slots for Cloud Access
- Load Pre-Configured Akida IP Core Designs
- Broad AI Model Compatibility
- Pre-Configured Model Examples for Akida Evaluation
- Configurable On-Chip Memory
- Event-Based Neuromorphic Engine
- MetaTF Software Environment

Getting Started: akida + metaTF



Applications

- Consumer products (Wearables)
- Retail
- Defense
- Smart Home / Business
- Industrial IoT
- Automotive

Key Benefits

- ✓ Remotely access Akida IP
- ✓ Verify model performance on hardware
- ✓ Quantify latency and power before moving to silicon
- ✓ Execution of CNN, and TENNs
- ✓ Industry Standard Development Environment
- ✓ Low Host CPU overhead
- ✓ Sparsity efficient design with event-based data flow computations

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