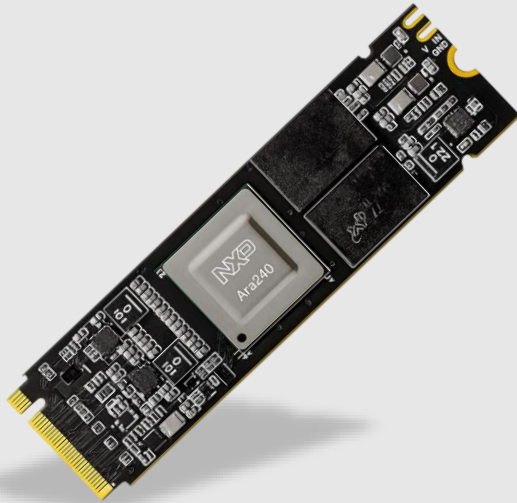


Aikri M.2 AI Accelerator –System on Module

Powered by NXP® Ara240 DNPU



- 1 Industrial machine vision
- 2 Robots and drones
- 3 Intelligent video analytics
- 4 Retail analytics
- 5 Generative AI at the edge
- 6 Smart HMI

About eInfochips

eInfochips, an Arrow Electronics company, is a leading provider of digital transformation and product engineering services. eInfochips accelerates time to market for its customers with its expertise in IoT, AI/ML, security, sensors, silicon, wireless, cloud, and power. eInfochips being a Gold partner of NXP, offers multiple product designs based on NXP's leading platforms and have enabled global customers with NXP based product designs.

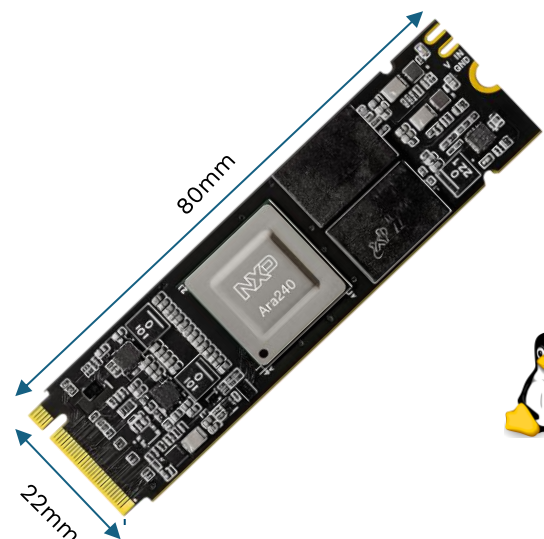
eInfochips Aikri M.2 AI Accelerator

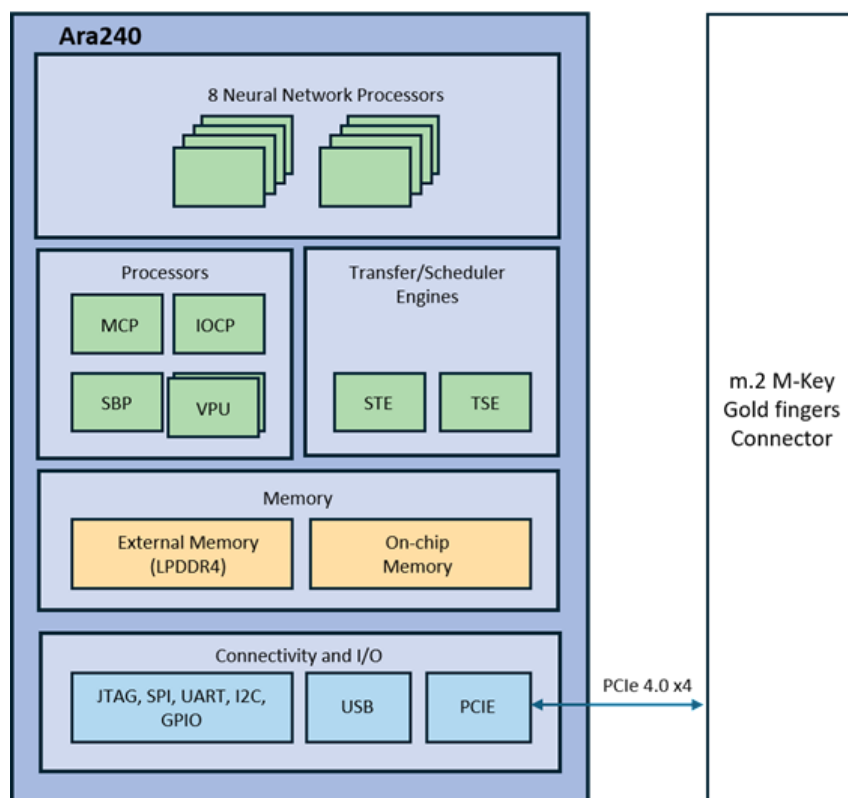
The Ara240 DNPU is NXP's second-generation AI accelerator, delivering over 5x the AI inference performance of the Ara-1. It accelerates next-generation Edge AI workloads, including Generative AI, VLMs, VLAs, vision transformers, and CNN-based vision applications, while incorporating Secure Boot and secure operation for trusted edge deployments.

The Aikri M.2 AI Accelerator module enables OEMs and developers to rapidly evaluate the performance of the Ara240 DNPU in real-world Edge AI applications without the need for custom hardware development. By providing a ready-to-integrate AI acceleration platform, it minimizes design risk, shortens development cycles, and accelerates time-to-market for next-generation AI-enabled products.

eInfochips Advantages

- ✓ **28** Years of experience in system design
- ✓ **14** Design centers worldwide
- ✓ **500+** Product designs
- ✓ Multiple Product designs on NXP
- ✓ **15M+** Product deployments across globe
- ✓ **ISO 9001, ISO13485, AS9100/EN9100, ISO26262** and **CMMi L3** compliant processes





Aikri M.2 AI Accelerator SoM

Processors	8x Neural Network Processor (NNP) cores 2x Vector Processor (VP) cores Management Control Processor (MCP) I/O Control Processor (IOCP) Secure Boot Processor (SBP)	
AI Performance (INT 8)	40 eTOPS	
Memory	2/4/8/16 GB LPDDR4 (SKU Dependent)	
I/O Interfaces	• PCIe Gen4 x4 – for AI inference, data transfer, and communication with the host processor • USB 3.2 Gen2 • Debug UART • Standard JTAG • SPI, I2C, GPIO	
Operating Environment	• Input voltage: 3.3V via m.2 connector	• Operating temperature: -20 to +85° C
Mechanical Specification	• SoM: 20mm x 80mm	
Software and OS	• Yocto-based Linux	
Orderable Parts	• Aikri-M.2-AI-8 – Module with 8GB LPDDR4 • Aikri-M.2-AI-6 – Module with 6GB LPDDR4 • Aikri-M.2-AI-4 – Module with 4GB LPDDR4	



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