

DX-M1M M.2 Module

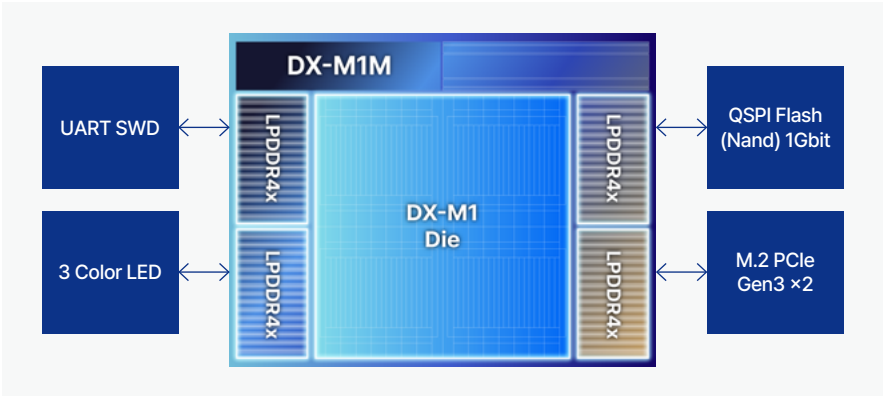
Real-time, on-device intelligence will be universal, affordable, and transformative



Type: AI Accelerator

Performance: 25 TOPS / 3W (Typical)

Functional Block Diagram



Specifications

Features	Details
AI Performance	25 TOPS (INT8)
Host Interface	PCIe Gen3 x2 (Supports Gen 1/2/3 & x1/x2)
Memory	Integrated 2GB LPDDR4x
Power Consumption	3W (Typical)
Operating Temperature	0 ~ 70°C (Commercial)
	-40 ~ 85°C (Industrial)
Thermal Solution	Heatsink (Option)
Form Factor	M.2 2242 (M+B Key), 22 x 42 x 4.9mm
OS Support	Windows 11/10
	Debian-based Linux (Ubuntu 24.04/22.04/20.04 LTS), Docker
	Yocto Linux
	Android
AI Frameworks	Ultralytics, TensorFlow, PyTorch, ONNX, Keras
System Support	x86, ARM Based Architecture

Overview

Experience the future of on-device AI with the **DEEPX DX-M1M**. This AI processor delivers a stunning **25 TOPS** while maintaining an ultra-low power consumption of just **3W(Typical)**. We prioritize Inferences Per Second (IPS) per Watt, so every operation delivers maximum, real-world value.

The **DX-M1M** integrates effortlessly with your host system, accelerating diverse applications like **computer vision and audio analysis**.

Target Applications

- AI CCTV
- ADAS
- Industrial Robot Arms
- AI Dashcams
- Autonomous Mobile Robots (AMRs)
- Drones
- Edge Servers
- AIoT Devices
- Remote Patient Monitoring (RPM)

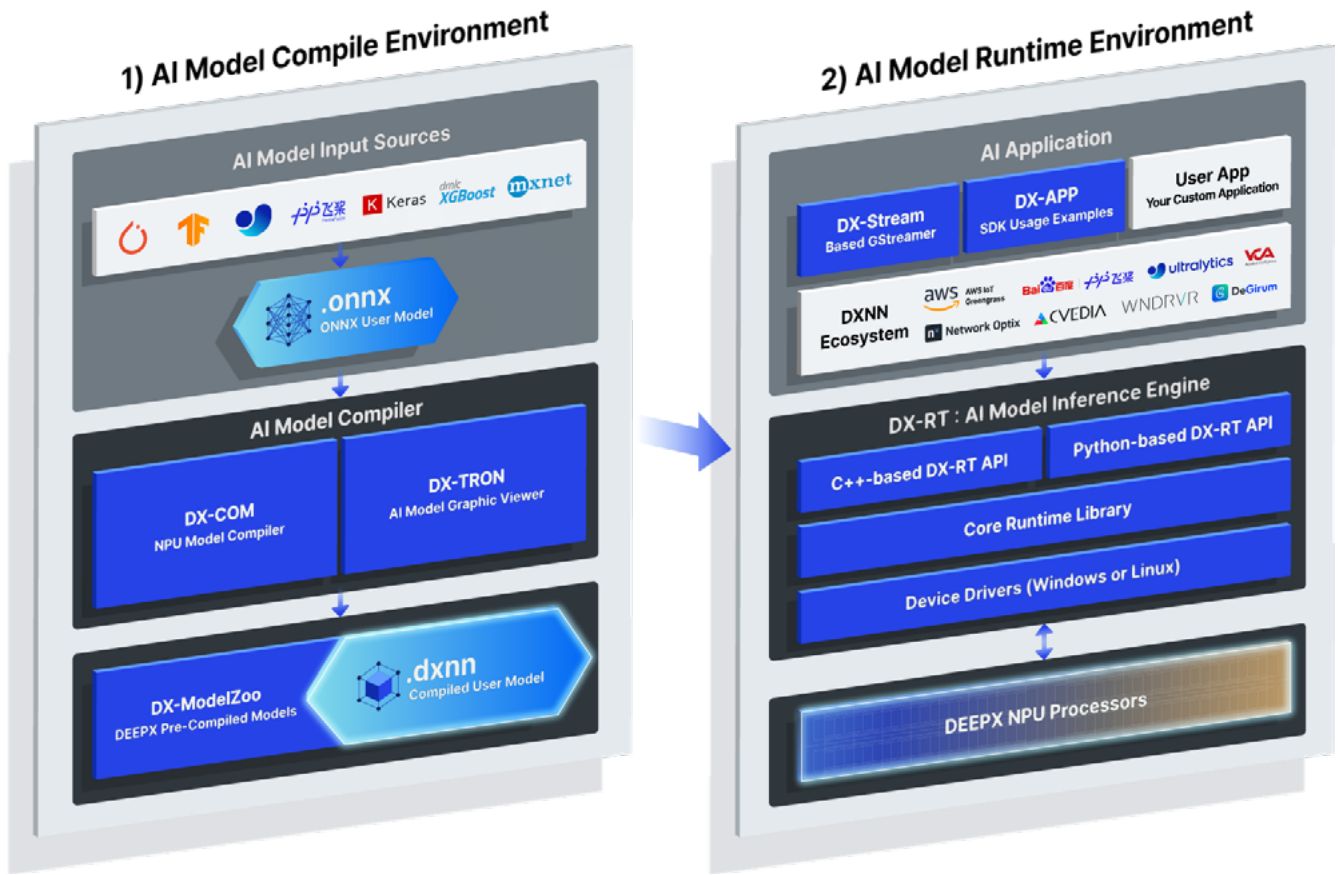


DXNN® - DEEPX SW Development Kit

DXNN® (DEEPX Neural Network) SDK streamlines the AI deployment pipeline on DEEPX NPUs. By integrating essential tools for compilation, optimization, simulation, and inference, it ensures high development efficiency. Experience a ready-to-use development environment with DX-AS (All Suite), a fully integrated and version-aligned package designed for rapid scaling.

DXNN SDK Full Stack Architecture

□ Third Party Space ■ User Space ■ DEEPX SDK Space



1) AI Model Compile Environment

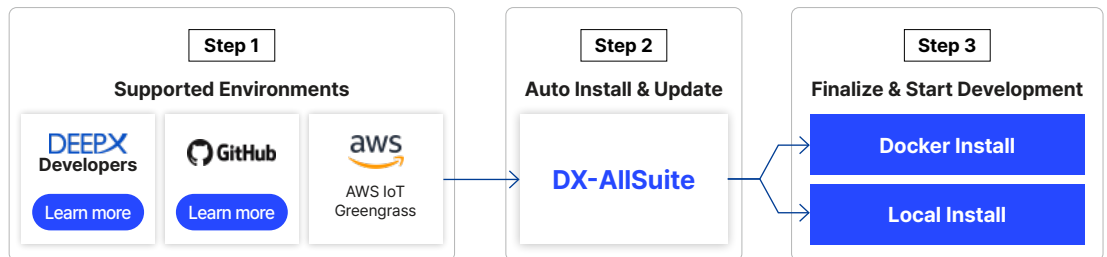
Optimizes models from various sources into DEEPX-specific .dxnn formats via the ONNX framework.

2) AI Model Runtime Environment

Deploys optimized models onto hardware via DX-Stream and DX-RT engines using C++ or Python APIs.

DX-AllSuite

DX-AllSuite: The Single Package for Your Complete DXNN Environment. Simplify setup, installation, and updates across local machines and Docker.



DEEPX HQ

3F, 20 Pangyoyeok-ro 241beon-gil,
Seongnam-si, Gyeonggi-do, South Korea

USA

1735 Technology Drive Suite
740. San Jose, CA U.S.A

China

No 0910, Yangguang Yuehai Building, Nanshan
District, Shenzhen, Guangdong, China

Taiwan

Nanjing E. Rd., Zhongshan Dist.,
Taipei City 104, Taiwan (R.O.C.)



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Contact Sales
sales@deepx.ai