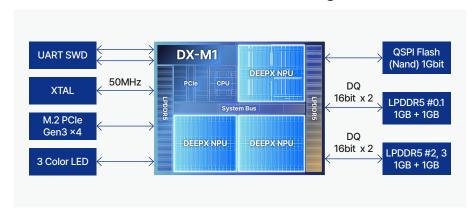
DX-M1 M.2 LPDDRx2 for Every AloT

The DEEPX DX-M1 M.2 module brings server-grade Al inference directly to edge devices. Delivering 25 TOPS of performance at just 2-5W, the module achieves 20x better performance efficiency (FPS/W) than GPGPUs while maintaining GPU-level Al accuracy.



"Integrating powerful AI vision processing and essential core features into a single chip, DEEPX drives innovative edge AI solutions for diverse intelligent systems."

DX-M1 M.2 LPDDRx2: Functional Block Diagram



Specifications

Feature	Al Accelerator	Details
Processor	INT8 Performance	25 TOPS
Signal Interface	PCI Express	PCle Gen.3 ×4 / Bandwidth: 4GB/s *Compatible to PCIE x1
Power	Power Consumption	Typical 3W, Max.5W among DX-M1 supported models
Operating	Temperature	-25 ~ 85°C (Throttling) -25 ~ 65°C (Non_Throttling)
Environment	Humidity	40 °C @ 85% relative humidity (non-condensing)
Thermal Solution	Cooling	Heatsink (Option)
Physical	Form Factor	M.2 2280 (Key M)
	Dimensions	22mm x 80mm x 4.1mm
	Power Range	3.3V ± 5%
Software Support	Windows	Windows 11, 10 64 bit
	Linux	Ubuntu 22.04, 20.04 LTS Support Yocto Project and Docker
	Framework	Support TensorFlow, TensorFlow Lite, ONNX, Keras, PyTorch by Dataflow complier converted
System Support	CPU Platform	x86, ARM Based Architecture



Key Features

- > Type: Al Accelerator
- > Form Factor: M.2 M Key (22 × 80 mm)
- > Interface: PCle Gen.3 ×4
- > Memory: 4GB LPDDR5, QSPI 1Gbit NAND Flash
- > Host HW: x86, ARM Based Architecture

Support DXNN® SDK

DXNN® SDK is a comprehensive SW development environment for deploying AI on DEEPX NPUs. It integrates tools for compiling, optimizing, simulating, and inferring the latest AI models, such as YOLO, VIT, and VLMs. And it provides an optimized, ready-to-use environment as the DX-AII Suite package to support fast and efficient AI development.

Target Applications

- · 3D Sensing & Stereo Cameras
- · AI NVR (Network Video Recorder)
- · AI CCTV
- · Robotics
- Automotive
- · Video Conferencing Cameras
- CMS (Camera Monitoring System)
- · Autonomous Robotic Platforms
- Drones
- AR/VR
- SBC (Single Board Computer)
- · ADAS/AD

DEEPX HQ

5F, 20 Pangyoyeok-ro 241beon-gil, Seongnam-si, Gyeonggi-do, South Korea USA

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

No. 66-10, Yucheng St., Nangang Dist., Taipei City 115012, Taiwan (R.O.C.) Europe Tel-Aviv Israel



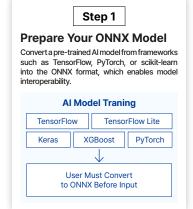
Buy Now! - <u>DX TechBridge Program</u>
Contact Sales - <u>sales@deepx.ai</u>

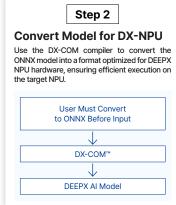
DXNN® SDK

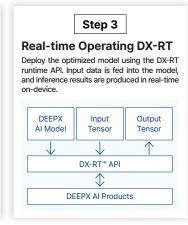
DXNN® (DEEPX Neural Network) SDK streamlines Al deployment on DEEPX NPUs by integrating versionaligned tools for compilation, optimization, simulation, and inference. For efficient development, it's offered as the DX-AS (All Suite), a fully integrated and optimized package.



How It Works: 4-Step AI Deployment with DXNN® SDK



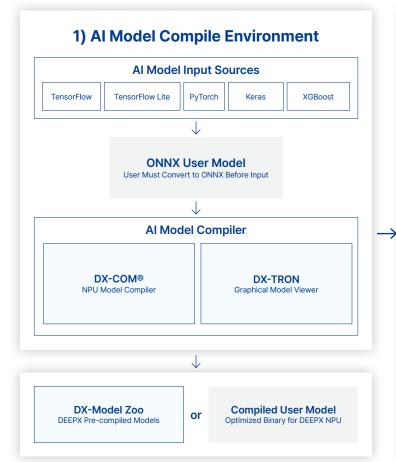


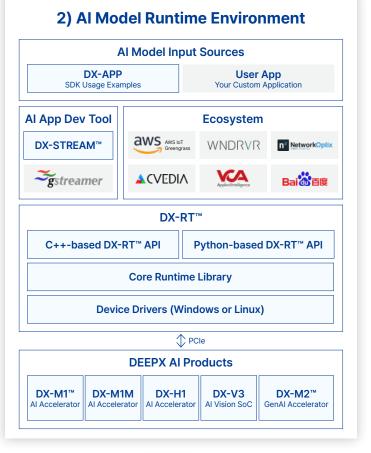




DXNN® Full Stack Architecture

DXNN® Full Stack Architecture streamlines Al model deployment onto DEEPX products using its two-stage Al Model Compile and Runtime Environments.





DEEPX HQ

5F, 20 Pangyoyeok-ro 241beon-gil, Seongnam-si, Gyeonggi-do, South Korea

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

Taiwan

No. 66-10, Yucheng St., Nangang Dist., Taipei City 115012, Taiwan (R.O.C.)

Europe

Tel-Aviv Israel



Buy Now! - DX TechBridge Program Contact Sales - sales@deepx.ai