

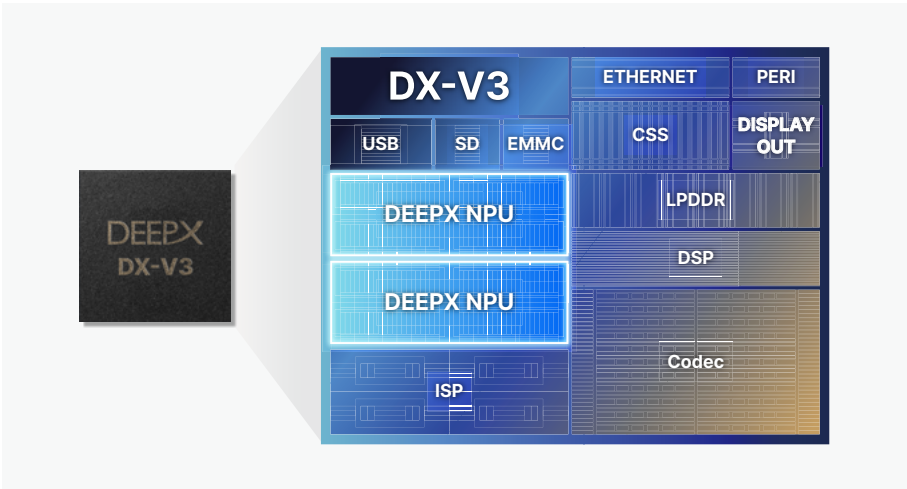
DX-V3: AI Enabler for Every Vision System

The DX-V3 is a high-performance AI SoC for diverse vision systems like 3D sensing, AI NVR, and autonomous robotics. This all-in-one SoC platform, optimized for compact, real-time edge vision AI, accelerates intelligent vision solution development by integrating advanced AI processing, image/video processing, and versatile connectivity.



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

DX-V3 Chip Functional Block Diagram



Key Features

Category	Details
AI Performance	• Up to 13 TOPS (INT8) for real-time AI inference
Powerful CPU	• Quad-core Cortex-A53 CPU @ 1.2GHz • Full Linux OS support
Advanced ISP & Video Processing	• Integrated 12MP ISP with 3A (AE/AF/AWB), and noise reduction • Supports H.264/H.265 encoding/decoding up to 4K@60fps
Multi-Channel Video Input/Output	• Captures video from 4x MIPI CSI-2 and legacy BT.656/1120 input • Output via MIPI DSI, CSI, and parallel interface for display or streaming
High-Speed I/O & Storage	• Includes USB 3.0, Gigabit Ethernet, and SD/eMMC interface
Edge AI Integration	• All-in-one SoC optimized for compact, real-time edge AI vision
DSP	• 75 GFLOPS (SLAM/Radar support)

“DX-V3 Engineering Sample (ES) scheduled for release in Q4 2025.”



DX-V3 Specifications

- > Type: AI Vision SoC
- > Video Codec: H.265/264 4K @60P
- > Memory: x16 2ch LPDDR4X/LPDDR5
- > DSP: 75 GFLOPS (SLAM/Radar Support)
- > Process: Based on TSMC 12nm process

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-All 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

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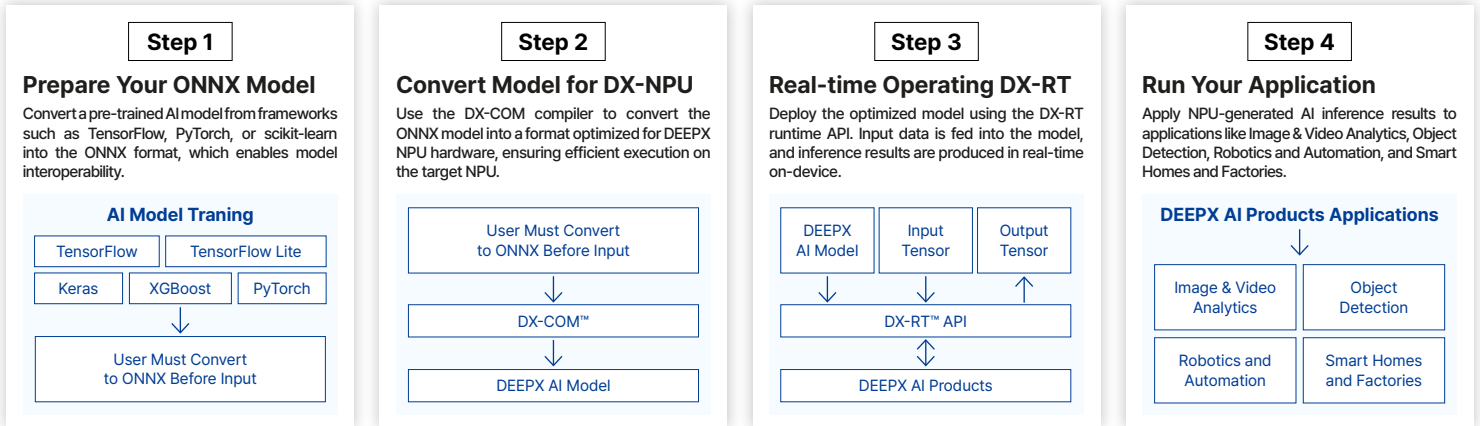
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DXNN® SDK

DXNN® (DEEPX Neural Network) SDK streamlines AI deployment on DEEPX NPUs by integrating version-aligned 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.

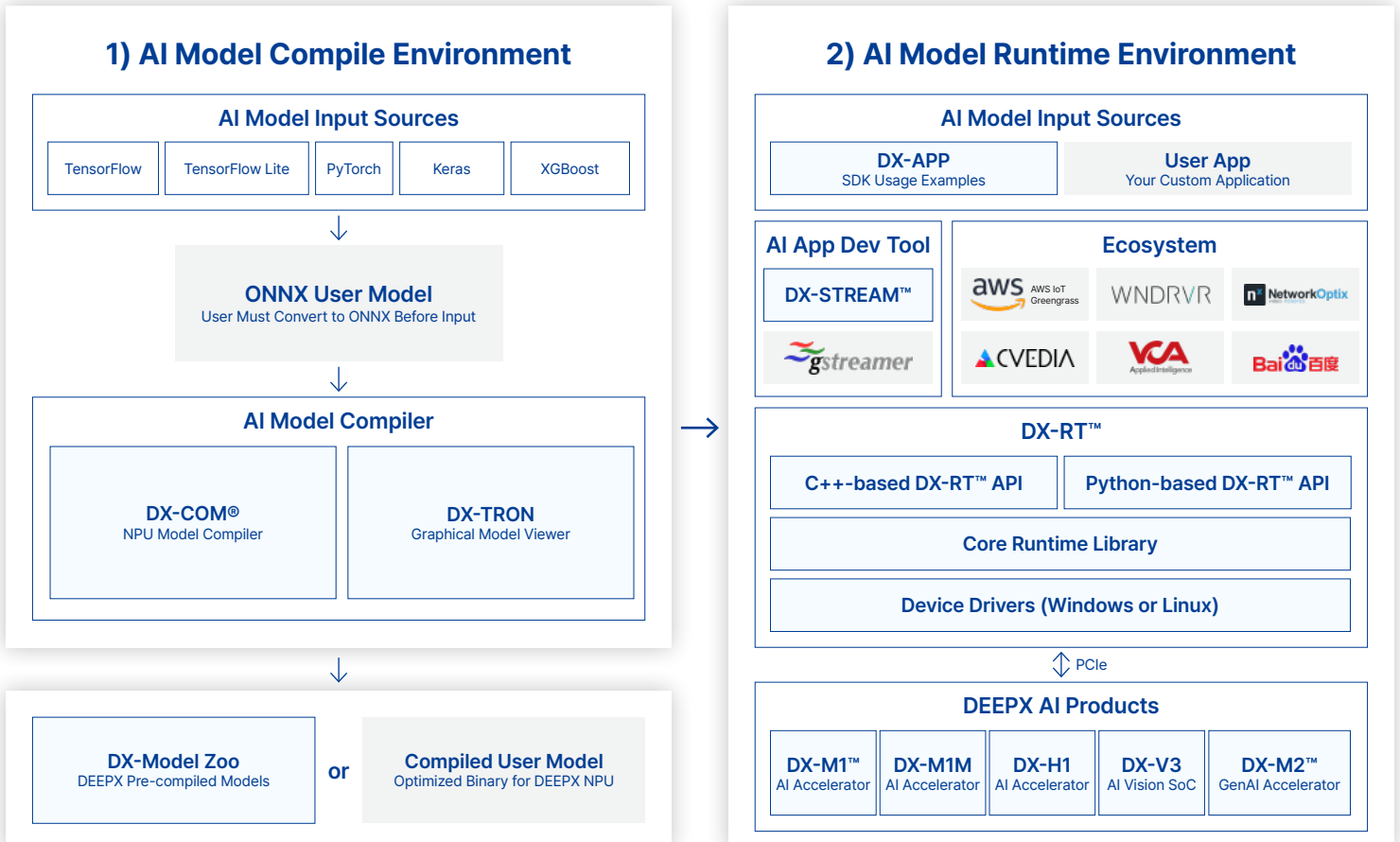


How It Works: 4-Step AI Deployment with DXNN® SDK



DXNN® Full Stack Architecture

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



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