

DX-AIPlayer N97

Comprehensive AI computing solutions designed for peak performance, reliability, and efficiency



Type: AI Edge Box

Performance: 25 TOPS / 1~5W

Specifications

Category	Feature	Details
System	 DX-M1 M.2 Module (AI Accelerator)	AI Perf: 25 TOPS / 1~5W
		Form Factor: M.2 M Key (22 × 80 mm)
		Interface: PCIe Gen.3 × 4
		Memory: 4GB LPDDR5
	CPU	Intel® Processor N97
	Memory	RAM: 8GB LPDDR5
	Graphics	Intel® UHD Graphics for 12th Gen Intel® Processors H/W Decoder : H.264/265 8CH (1080P @ 30fps)
	Storages	eMMC Onboard 64GB
	Ethernet	Gb Ethernet (full speed) RJ-45 × 2
	WIFI/BT	Optional with M.2 2230 E-key x 1
	Expansion Slot	M.2 2230 E-Key x 1 (PCIe x1, USB2.0 ×1) M.2 2280 M-Key x 1 (PCIe x2)
	Security	Onboard TPM 2.0
	OS Support	Windows 11/10 Debian-based Linux (Ubuntu 24.04/22.04/20.04 LTS)
	AI Frameworks	Ultralytics, TensorFlow, PyTorch, ONNX, Keras
I/O Placements	USB	USB 2.0 × 2 (via 10 Pin Header x 1) USB 3.2 Gen 2 × 3 (Type-A)
	Display Port	HDMI 2.0b x 1 DP 1.2 × 1
	Ethernet	Gb Ethernet (full speed) RJ-45 × 2
	COM	RS-232/422/485 × 2
	Audio	Line out x 1, Mic in x 1
Power Supply	Power Requirement	12V DC-in, 5A
	Power Supply Type	AT/ATX
	Power Consumption	15W ~ 37W (Typical)
Mechanical	Mounting	VESA Mounting
	Dimensions	95 mm x 95 mm x 55 mm
	Net Weight	450g
	Gross Weight	600g
Environment	Operating Temperature	0°C ~ 60°C / 0.5 airflow
	Operating Humidity	0% ~ 90% relative humidity, non-condensing
	Storage Temperature	-20°C ~ 70°C
	MTBF	1,224,238 Hours
	Certification	KC

Overview

The DEEPX DX-AIPlayer are advanced, high-efficiency AI systems engineered to bring server-grade inference capabilities directly to the edge.

Leveraging the proprietary DEEPX® DX-M1 M.2 AI accelerator, this series provides the industry-leading performance, power efficiency, and flexibility required for next-generation applications in Smart City, Smart Factory, Robotics, and intelligent Surveillance Systems.

Target Applications

- Edge Cameras Systems
- Smart Mobility
- Smart Factory
- Smart Cities
- Robotics
- Edge Cameras Systems
- Industrial Robot Arms
- Remote Patient Monitoring (RPM)
- Smart Homes
- Smart Retail

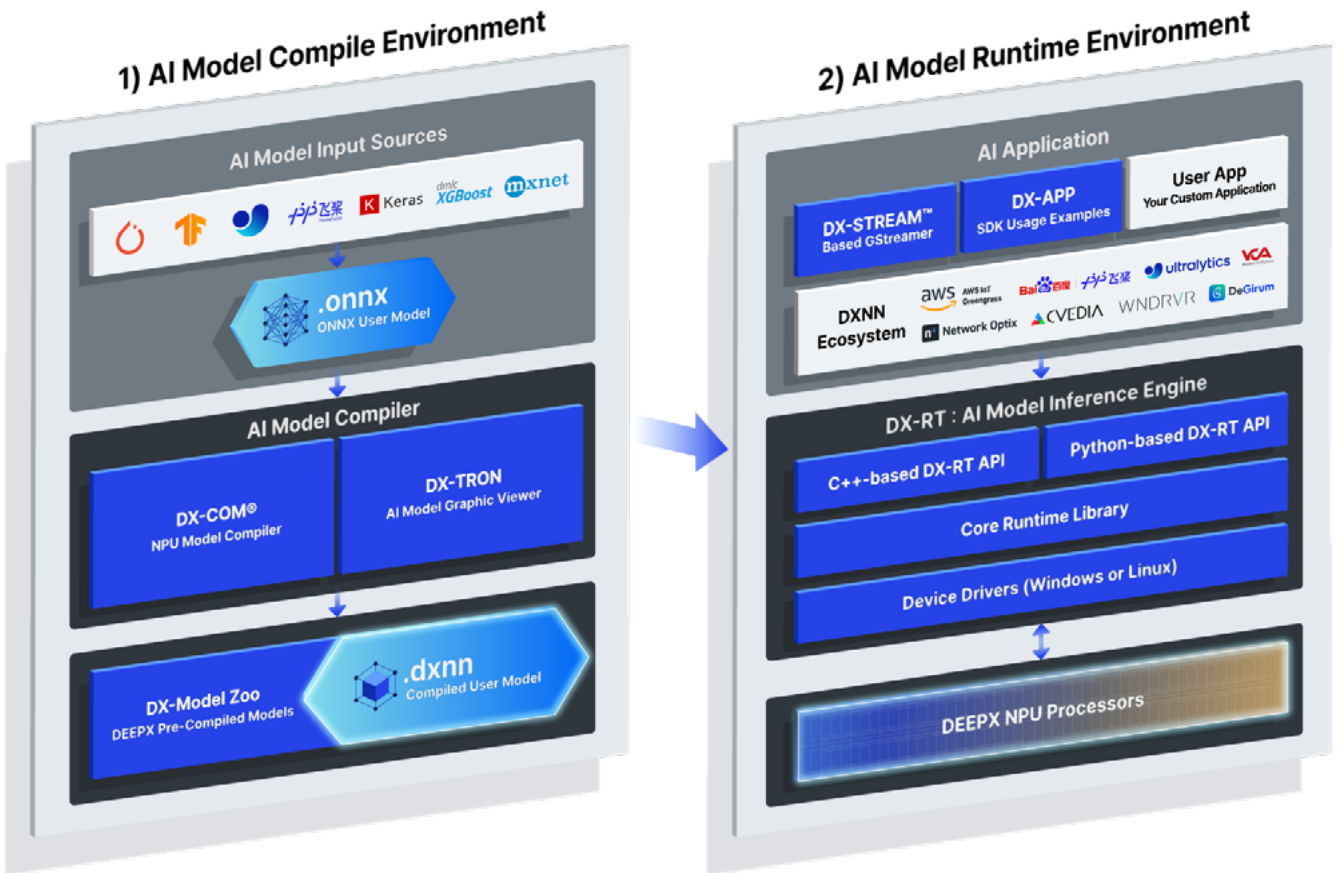
DEEPX

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

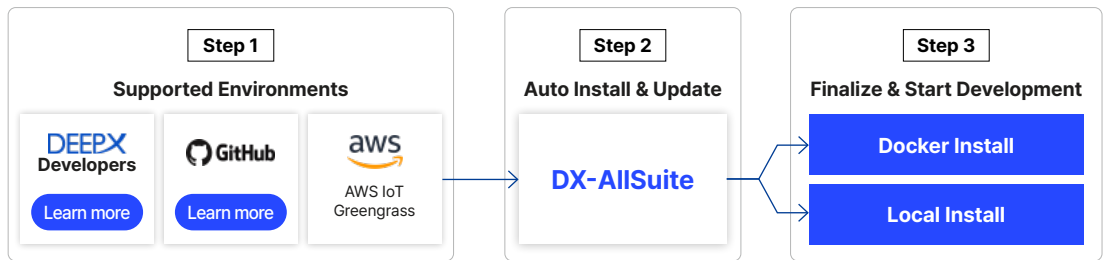
Optimizes models from various sources into DEEPX-specific .dxnn formats via the ONNX framework.

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.



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