DX-AIPlayer N97

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

Type: AI Edge Box **Performance: 25 TOPS / 5W (Typical)**

Specifications

Category	Feature	Details
System	 DX-M1 M.2 Module (AI Accelerator)	AI Perf: 25 TOPS / 5W (Typical)
		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), Docker
		Yocto Linux
		Android
	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 Temp.	0°C ~ 60°C / 0.5 airflow
	Storage Temp.	-20°C ~ 70°C
	MTBF	1,224,238 Hours
	Certification	CE, FCC, ROHS, UKCA, VCCI, KC

Overview

An integrated edge AI platform combining the Intel® N97 processor and DX-M1 NPU to deliver high-performance AI inference alongside low-power, low-heat reliability for throttling-free operation in demanding industrial environments.

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 Retails

Learn more

AWS IoT Greengrass Qualification

AWS IoT Greengrass, enabling secure cloud connectivity and fleet-scale deployment. Supports local execution of components and containerized Docker applications.

Learn more

DEEPX x Ultralytics YOLO26

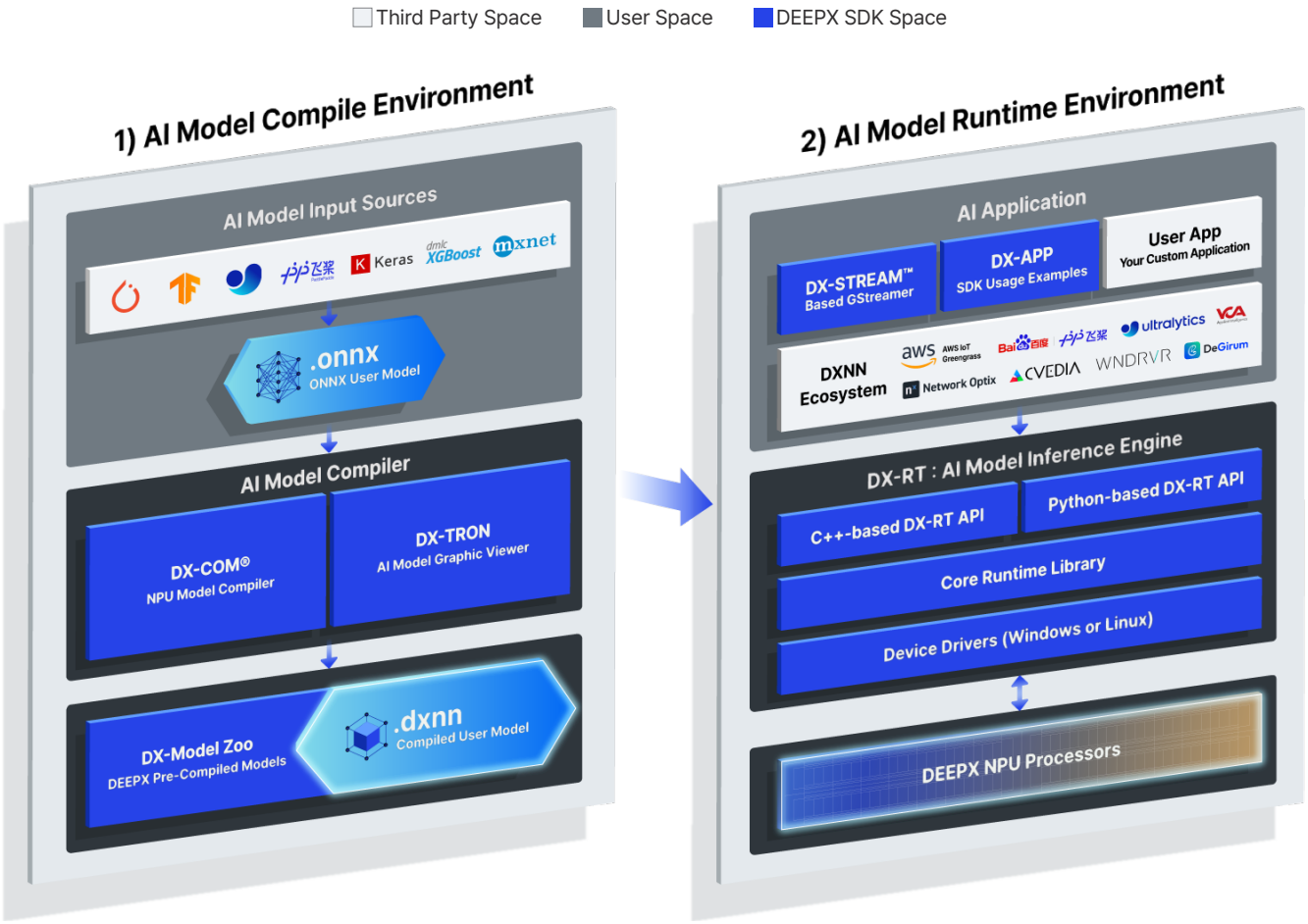
As a key partner, Ultralytics provides optimized support for YOLO26, enabling fast and seamless deployment of real-time AI solutions in robotics and factory automation.

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



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.

Step 1
Supported Environments

- DEEPX Developers — Learn more
- GitHub — Learn more
- aws AWS IoT Greengrass

Step 2
Auto Install & Update
DX-AllSuite

Step 3
Finalize & Start Development
- Docker Install
- Local Install

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