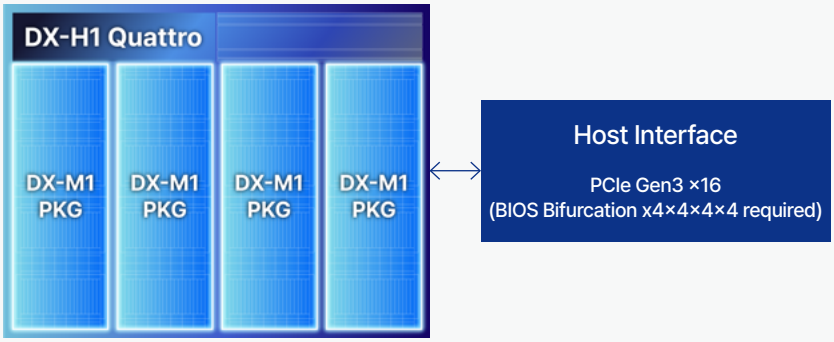
DX-H1 Quattro

Supercharge Your AI Workloads
with 4x Efficiency

Type: AI Accelerator **Performance: 100 TOPS / 20W**

Functional Block Diagram



Specifications

Features	Details
AI Performance	100 TOPS (INT8)
Host Interface	PCIe Gen3 ×16 (BIOS Bifurcation x4×4×4×4 required)
Memory	16GB LPDDR5
Power Consumption	20W
Thermal Solution	Active Cooling (Integrated Fan & Heatsink Module)
Form Factor	Low Profile PCIe Card
Dimensions	166.9 mm × 68.9 mm × 18.30 mm (without Braket)
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

Break free from traditional GPU limitations and experience unmatched efficiency.

The **DX-H1 Quattro** delivers a powerful **100 TOPS (INT8)** of performance while maintaining a remarkably low Thermal Design Power (TDP) of just **20W**. This makes it an energy-efficient solution optimized for AI workloads in data center and edge environments.

This card's unique "**Quattro**" design integrates four AI processors to provide powerful parallel processing capabilities. As a standard PCIe card, it's designed to be easily installed in existing servers, making it the most efficient choice for your system upgrade.

Target Applications

- Data Center AI Servers
- Multi-Channel Video Analytics Systems
- Smart Factories and Smart Cities
- Edge AI Servers and Appliances
- Network Video Recorders (NVRs)
- Industrial Robots
- Automation Equipment

DEEPX

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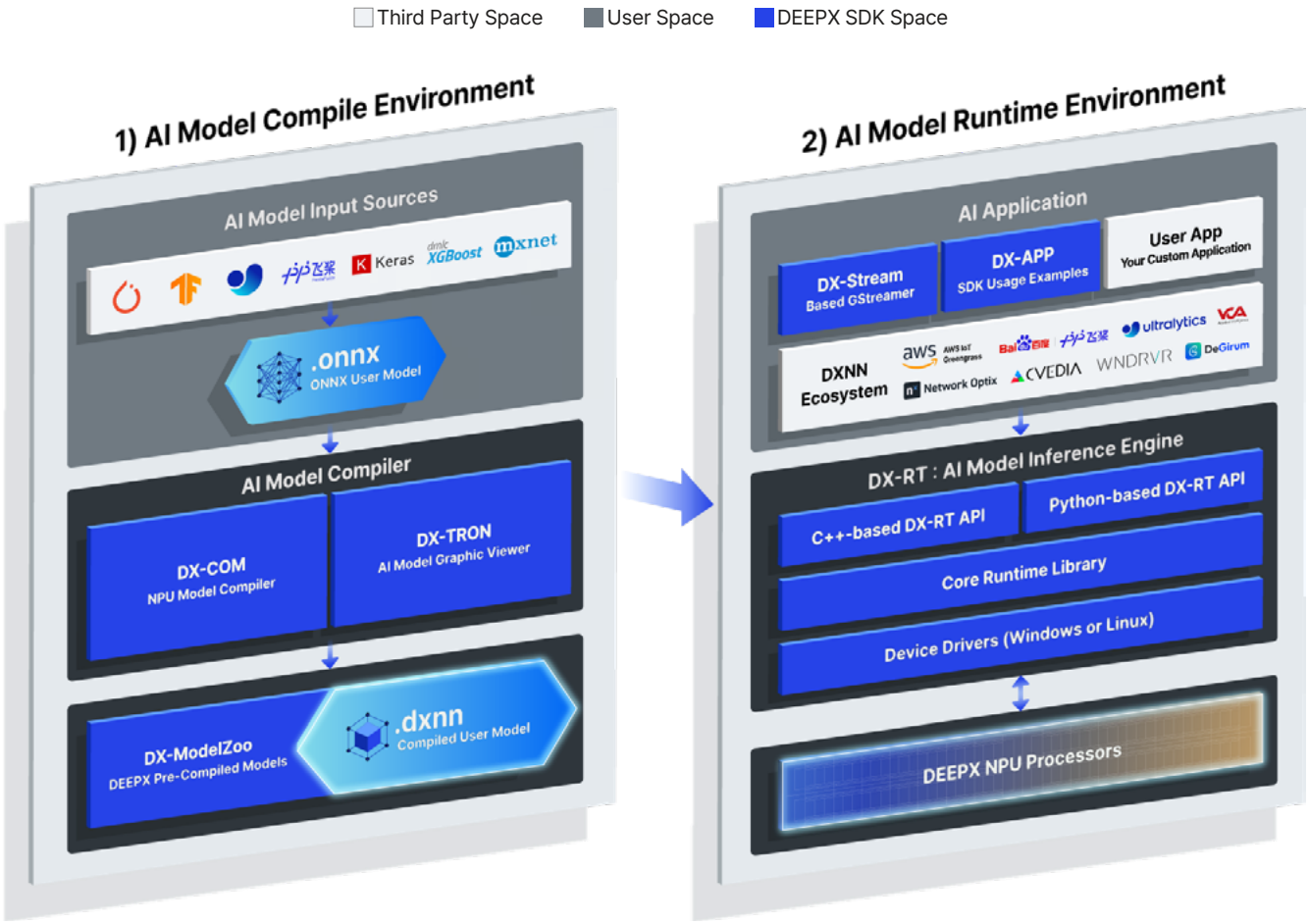
DXNN® - DEEPX SW Development Kit

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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