DEEPX DX-M1
AI Accelerator

DX-M1 sets a new benchmark in energy-efficient AI computing, delivering **25 TOPS (200 eTOPS) at under 5W**, significantly outperforming competitors in performance-per-watt.
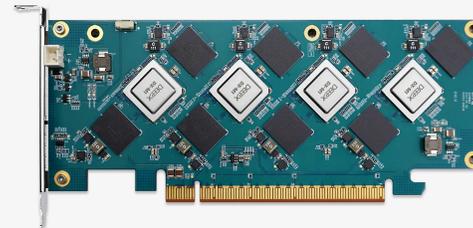
DX-M1 Chip-Based Application Modules

DX-M1 M.2 LPDDR5×2

Type: AI Accelerator
AI Perf: 25 TOPS / 3~5W
Form Factor: M.2 M Key (22 × 80 mm)
Interface: PCIe Gen.3 ×4
Memory: 4GB LPDDR5, QSPI 1Gbit NAND

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Robotics Technology

DX-H1 PCIe Card Quattro

Type: AI Accelerator
AI Perf: 100 TOPS / 20W
Form Factor: PCIe Card (167mm x 66.4mm)
Interface: PCIe Gen.3 (4×4×4×4 Bifurcation)
Memory: 16GB LPDDR5, QSPI 1Gbit NAND

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Computer HW & Components

Key Features

Outstanding Power Efficiency
Exceptional AI performance with reduced power consumption, enabling longer battery life for your products and greater energy savings for data centers. (Butter-Proof)

Dedicated DRAM Design
Engineered for simultaneous multi-model processing, our dedicated DRAM ensures smooth, high-performance AI execution— even when running several models at once.

Universal CPU Compatibility
Designed for seamless integration with any host CPU architecture, enabling faster deployment, simplified development, and full compatibility of existing infrastructure.

Leading Cost Efficiency
Minimizes reliance on costly on-chip SRAM, delivering high performance with a dramatically lower bill of materials—bringing powerful AI accessible across more devices.

AI Performance

AI Model	Input Resolution	Accuracy (mAP) FP32 GPU	Accuracy (mAP) *IQ8 DX-M1	FPS DX-M1	NPU Power (W) DX-M1	FPS/W DX-M1
YOLOv5m6	640×640	45.08	45.07	40.42	2.20	18.37
YOLOv7-e6	640×640	55.58	55.45	19.49	2.50	7.81
YOLOv8x	640×640	53.63	53.12	49.03	3.17	15.48
YOLOv8l	640×640	52.57	52.01	91.13	3.60	25.32
YOLOv8m	640×640	50.11	49.56	133.60	2.76	48.32
YOLOv9c	640×640	52.86	52.36	47.89	2.83	16.95

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Product details
https://deepx.ai/products/ai-chips/