DLAP-IGX

Edge AI Platform Powered by NVIDIA® IGX Thor™

Features

- Extreme AI Performance: Embedded with NVIDIA IGX T7000™ up to 4,293 TFLOPS (FP4-Sparse) for multi-model generative AI workloads.
- Rich High-Speed I/O: Includes 1x USB 3.2 Type-C, 4x USB 3.2 Type A, and comprehensive expansion options.
- Industry-Grade Design: designed for Humanoid Robot /Vision Sensing System (VSS) / Autonomous Mobile Robot (AMR) applications.

Preliminary



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Specifications

Model	DLAP-IGX
AI Performance	Up to 4,293 TFLOPS (FP4-Sparse)
iGPU	2,560-core NVIDIA Blackwell architecture GPU with fifth generation Tensor Cores Multi-Instance GPU with 10 TPCs
iGPU Max Frequency	1.57 GHz
CPU	14-core Arm Neoverse-V3AE64-bit CPU 64 KB I-cache, 64 KB dCache 1 MB L2 cache per core 16 MB shared system L3 cache
CPU Max Frequency	2.6 GHz
Vision Accelerator	1x PVA v3
Memory	128 GB 256-bit LPDDR5X | 273 GB/s 48 GB dGPU memory | 1,344 GB/s
Storage	1 TB M.2 NVMe (PCIE Gen5 x2)
Video Encode	2x NVEncode (iGPU) 3x NVEncode (dGPU
Video Decode	2x NVDecode (iGPU) 3x NVDecode (dGPU)
PCIe	2x PCIe Gen5 (x8, x16)
Discrete GPU	NVIDIA RTX PRO™ 5000 Blackwell (optional) 14,080-core Blackwell architecture GPU with fifth-generation Tensor Cores
USB	1x USB 3.2 Type-C 4x USB 3.2 Type A
Networking	2x RJ45 (1GbE each) 2x QSFP28 (200GbE each)
Integrated ConnectX	Yes
Display	1x VESA DisplayPort 1.4a
Other I/O	Two 3.5mm AUX jack (MIC, line-out)
BMC	Yes
Safety Support	Functional Safety Island on SoC Safety MCU on the carrier board
Power	100-240 VAC , 10-5A , 60-50Hz , 700W power supply
Mechanical	330 x 375 x 170 mm

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