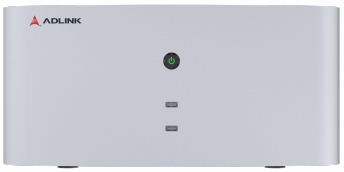
MLB-IGX

Medical Box PC with IEC 60601-compliant NVIDIA IGX Platform

Preliminary



Features

- GPU: 2,048-core NVIDIA Ampere architecture with 64 Tensor Cores
- NVIDIA® ConnectX®-7 smart network interface card (SmartNIC)
- Ten years of NVIDIA® hardware and software support
- CPU: 12-core Arm® Cortex®-A78AE v8.2
- 248 tera operations per second (TOPS) of AI performance

Specifications

Model	MLB-IGX
AI Performance	Up to 867 TOPs with optional RTX A6000 GPU
SOM (System on Module)	GPU: 2,048-core NVIDIA Ampere architecture with 64 Tensor Cores CPU: 12-core Arm® Cortex®-A78AE v8.2
NVIDIA ConnectX-7	NVIDIA ConnectX-7, 2x 100Gbe 32-lane Gen 5 PCIe switch (x8 upstream, x16 Downstream, x8 Downstream)
Safety MCU (sMCU)	Infineon Aurix TC397
NVIDIA BMC (Baseboard Management Controller Module)	Aspeed AST2600, Microchip ERot
GPU Max Frequency	1.185 GHz
CPU Max Frequency	1.971 GHz
DL Accelerator	2x NVDLA 2.0 Engines
DLA Max Frequency	1.4 GHz
Vision Accelerator	1x PVA v2
Memory	64GB 256-bit LPDDR5, 204.8GB/s
Storage	256GByte NVMe (PCIe Gen4)
Discrete GPU Card	NVIDIA A6000 (optional)
Video Decode	1x 8K30 (H.265), 3x 4K60 (H.265) 7x 4K30 (H.265), 11x 1,080p60 (H.265), 22x 1,080p30 (H.265)
PCIe	2x PCIe Gen5 expansion slots (from ConnectX-7 PCIe switch), x8 lanes within x16 physical connector x16 lanes within x16 physical connector
USB	1x USB 3.2 Gen2 Type-C connector, 4x USB 3.2 Gen2 Type-A connectors
Ethernet	2x RJ45 (up to 1 GbE), 2x QSFP28 ports (up to 100GbE per port)
Display	One DisplayPort 1.4a output
Audio (AU)	Two 3.5mm AUX jack (MIC, line-out)
Power	100-240 VAC , 10-5A , 60-50Hz , 700W Medical Grade power supply
Mechanical	330 x 375 x 170 mm

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