

AI Hardware Solution

ACCEL-JS2000

NVIDIA IGX platform for Medical AI imaging application



Features

- NVIDIA IGX Orin Industrial Module with 250 TOPS AI Performance
- Support RTX A6000 GPU card with up to 600 TOPS AI Performance
- ConnectX-7 High Speed Edge Networking 2 x 100Gbe
- Dedicated MCU to reassure the functional safety
- Built-in BMC controller to provide a standard-based interface to system management and recovery
- System Power design with 700W Medical PSU
- Excellent thermal management to maximize the performance and lower the noise
- 4K SDI capture card integration
- support optional 7" front screen
- Long Life cycle Support
- Medical Certification

Specifications

MAIN SPECIFICATIONS

AI Engine	NVIDIA IGX Orin Soc Industrial Module
CPU	12-core Arm® Cortex®-A78AE v8.2
System Memory	64GB 256-bit LPDDR5 204.8 GB/s
Graphics	2,048-core NVIDIA Ampere architecture with 64 Tensor Cores
Storage	M.2 NVMe SSD x 1 / 2.5" SATA SSD x2 /64GB eMMC 5.1
OS Support	Linux 20.04 with Jetpack 5.0
Front Screen (Optional)	7" LED Panel with P-Cap Touch , 400nits, 1280 x 800
Safety	Infineon Aurix TC397
NVIDIA BMC	Aspeed AST2600 Microchip ERoT

I/O

USB	4 x USB 3.2 Gen 2 Type A 1 x USB 3.2 Gen 2 Type C
Ethernet	2 x 100GbE QSFP28 ports 2 x 1GbE RJ45
Video Out	1 x Display Port 1.4a
Video input (optional)	1 x 12G SDI +1 x HDMI 2.0 HDMI 2.0(Max resolution up to 4096x2160@60fps) 12G SDI(Max resolution up to 4096x2160@60fps)
Audio	3 x 3.5mm AU Jacks(MIC, Line-in and Speaker out)
Serial Port	2 x COM Port
Function Port	Grounding pin x 1
Front I/O	1 x Power Button with Power LED indicator 2 x USB 2.0 Type A "
Wireless Communication	1 x M.2 Key E Key for Wireless Module 1 x M.2 Key B for 5G/LTE module "
Expansion I/O	1 x PCIe Gen5 Double Width Slot (x16) for A6000 1 x PCIe Gen5 Single Width Slot (x8)

MECHANICAL AND ENVIRONMENTAL

Power	100V to 240V AC Input, 700W Medical Power Supply
Operating temperature	0°C ~ 35°C(32°F ~ 95°F)
Storage temperature	-20°C ~ 60°C(-4°F ~ 140°F)
Dimension	TBC
Package Size	TBC
Gross Weight	TBC
Net Weight	TBC
Certifications	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/A1:2013/A12:2014 (V3.1) FCC: Part 18 Class B UL: ANSI/AAMI ES60601-1:2012 (V3.1) cUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)