

EDG6N0-S T5X



Highly Expandable AI Edge, Provide 2070 FP4 TFLOPS and 2×HDMI2.0 Display

Features

- Powered by NVIDIA® Jetson Thor™ up to 2070 FP4 TFLOPS
- 1×QSFP28
- 1×M.2 M Key / 1×M.2 E Key / 1×M.2 B Key
- 4×USB3.2 Gen2 Type-A, 2×USB3.2 Gen2 Type-C
- 2×HDMI2.0
- CAN Bus / UART / I2C / SPI



Specification

System		
CPU	NVIDIA Jetson Thor™ 128GB ARM Neoverse V3AE CPU	
GPU	2560 NVIDIA CUDA cores 96 5 th Tensor cores	
AI Performance	Up to 2070 FP4 TFLOPs	
System Memory	128GB LPDDR5X 273 GB/s	
Interface		
Storage	Supports External NVMe	
Display Interface	2×HDMI2.0 (Up to 4K60)	
Ethernet	1×QSFP28 for 100Gbps Ethernet 1×RJ45 for 5Gbps Ethernet DHCP Client	
Expansion Slot	PCIe 1×PCIe Gen5×4 (Gold Finger) M.2 1×M.2 2230 E Key PCIe Gen4*1/USB2.0/SDIO Slot 1×M.2 2280 M Key PCIe Gen5×2 Slot 1×M.2 2242/3042/3052 B Key USB3.2 Gen1 Slot	
USB	4×USB3.2 Gen2 (Type-A) 2×USB3.2 Gen2 (Type-C)	
MIPI	16×MIPI CSI-2 Lanes (D-PHY 2.1, 4x4 3x4+2x2 2x4+4x2 1x4+5x2 6x2 MIPI Lanes, Support MIPI Camera, Capture Card)	
Audio	1×Line In (3.5mm or Pin Header) 1×Line Out (3.5mm or Pin Header)	
Peripheral Communication	40Pin Header 1×UART (Pin Header) 2×GPIO (Pin Header) 2×CAN Bus (Pin Header or Wafer) 2×I2C (Pin Header) 1×I2S (Pin Header) 1×SPI (Pin Header) 3×PWM (Pin Header)	4×Fan Connector 4×CAN Bus (Wafer, Two of them share pins with the CAN BUS on the 40-pin header.)
Misc. Features	Firmware Upgradable AutoPower (Pin Header)	

Add-On Cards / SDK / Software

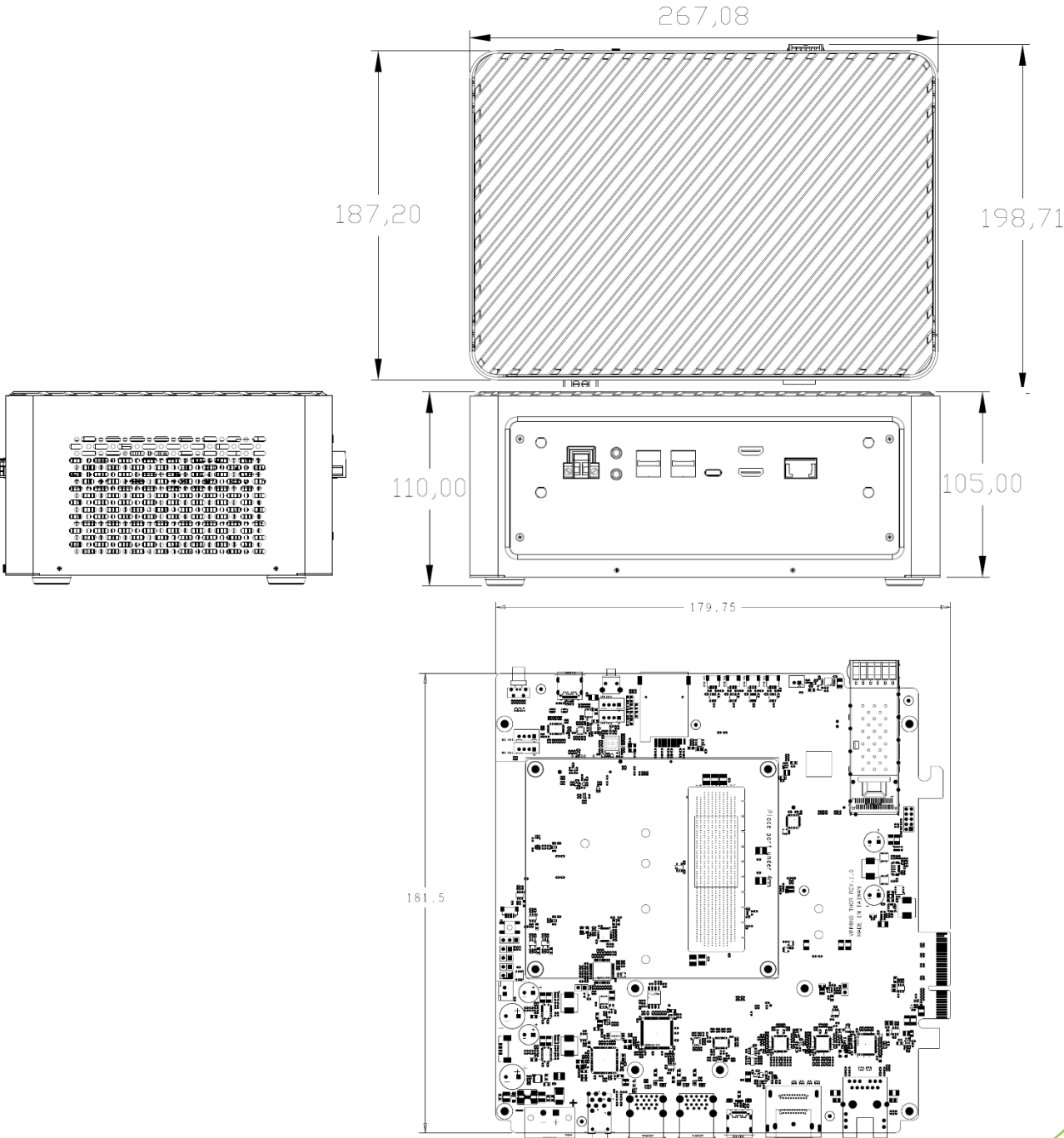
Video Feature		
Video Encode	NVIDIA Jetson Thor™ 128GB H.265 (UHP) · 6×4K60 12×4K30 24×1080p60 50×1080p30	H.264 (UHP) · 6×4K60 12×4K30 24×1080p60 48×1080p30
Video Decode	NVIDIA Jetson Thor™ 128GB AV1 (Main Profile) · 2×8K30 4×4K60 10×4K30 22×1080p60 46×1080p30 H.265 (Main, Main10) · 4×8K30 10×4K60 22×4K30 46×1080p60 92×1080p30	H.264 (Baseline, Main, High) · 4×8K30 10×4K60 20×4K30 40×1080p60 82×1080p30 VP9 (Profile 0, Profile 2) · 4×8K30 8×4K60 18×4K30 38×1080p60 78×1080p30

Environment

Development Environment	
OS	Ubuntu: 24.04.2
Kernel	6.8.12-tegra or Higher
BSP	Linux for Tegra(L4T) R38.2.0 or Higher
SDK	JetPack 7.0.0 or Higher
Environment	
Power Supply	DC input : 20~60V
Power Consumption	TBA
Operating Temperature	Standard Version: 0~60 ° C with Airflow
Storage Temperature	-20~80 ° C
Certification	CE, FCC

Mechanical

- Dimension of main PCB: 179.75mm×181.5mm
- Dimension of main CASE: 267.08mm×187.2mm×105mm
- Weight: TBA

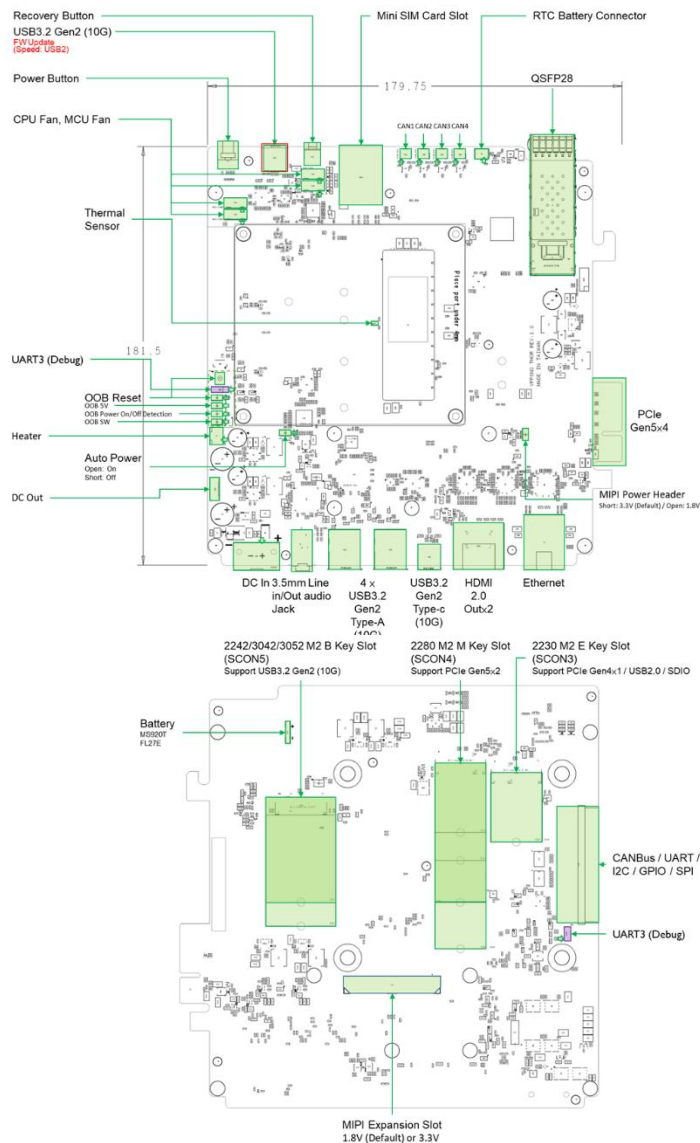


I/O Layout

• Case



• Carrier Board



* All registered trademarks are the property of their owners. The photo is for reference only.

* Technology License Patent Royalty. Supplier (YUAN Technology Ltd.) as an OEM vendor is not responsible for any royalties applied to the Models and collected by any patent or trade mark holders or his exclusive, non-exclusive.

Licensees or representatives such as MPEGLA, Dolby, Thomson, Sivel, H.264, MPEG4 and any other natural or legal person. All concerning royalties of patents and trade marks will be paid or negotiated with the above mentioned owner by you. In case of any patent or trademark infringement you are responsible for all necessary processes and costs. You accept and acknowledge that all prices of Models offered by supplier are exclusive of any royalties, charges or license fees for any patents in any countries or areas