

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) 1×Line Out (3.5mm)	
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

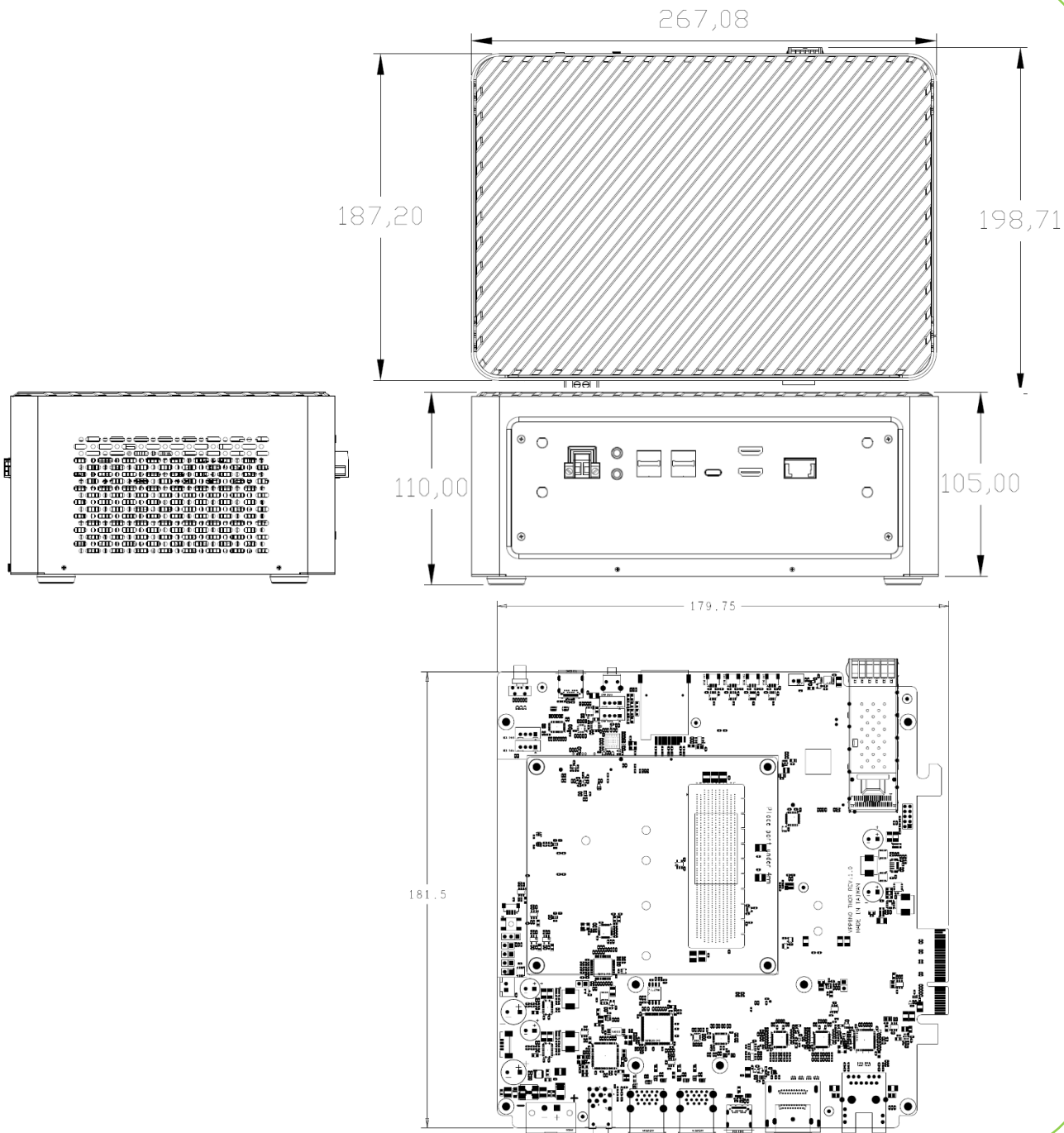
Video Feature		
Video Encode	NVIDIA Jetson Thor™ 128GB H.265 (UHP) · 6×4K60 12×4K30 24×1080p60 50×1080p30	H.264 (UHP) · 6×4K60 12×4K30 24×1080p60 48×1080p30
Video Decode	NVIDIA Jetson Thor™ 128GB AV1 (Main Profile) · 2×8K30 4×4K60 10×4K30 22×1080p60 46×1080p30 H.265 (Main, Main10) · 4×8K30 10×4K60 22×4K30 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 : 20~32V
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

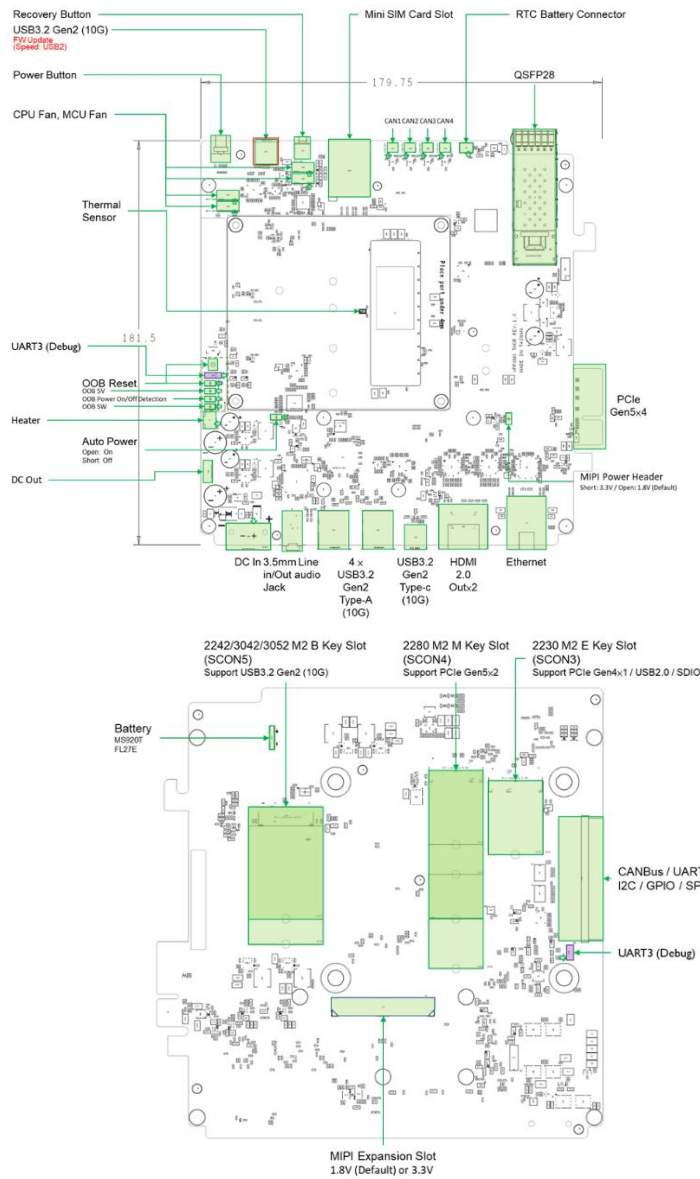


I/O Layout

Case



Carrier Board



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