BRAV-7138

NVIDIA Jetson AGX Thor 64/128GB, 4*GbE ,1*10GbE 4*USB3.2, 1*OTG, 1*RS232+1*RS485, 2*CANFD, 1*HDMI,3*M.2,1*MiniPCIe, DC 9~36V

JHCTECH

IoT Computer Connecting the Dots

MEC System——BRAV Series



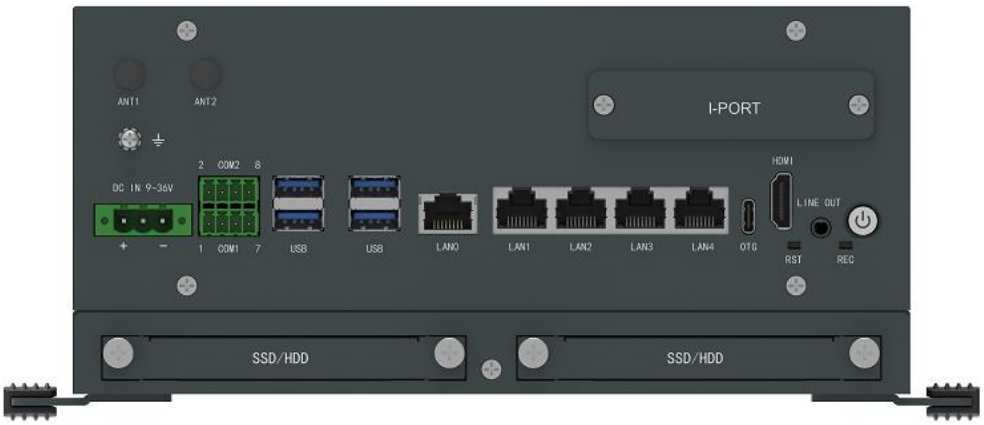
Key Features

- NVIDIA Jetson AGX Thor 64/128G, 1200/2070 TFLOPS (FP4)
- 12/14 cores Arm® Neoverse®-V3AE 64-bit CPU, maximum frequency 2.6GHz
- NVIDIA Blackwell GPU with 64/96Tensor Cores
- Onboard 64/128G 256-bit LPDDR5 memory 273GB/s
- 2*M.2 M-Key NVME, 2*SATA3.0 , support Soft RAID 0/1
- 1*HDMI+1*Line-out/Mic，4*GbE LAN，1*10 GbE LAN，4*USB3.2, 1*RS485+RS232，2*CANFD，1*M.2 B-Key+SIM, 1*MiniPCIe
- DC 9~36V wide power input，with OVP，OCP and SCP

Product Overview

BRAV-7138 is equipped with the NVIDIA Jetson AGX Thor module, featuring 12/14-cores ARM CPU and high-performance GPU, delivering a maximum inference performance of 1200/2070 TFLOPS, with onboard 64/128GB memory, DC 9-36V wide-voltage power supply, and an operating temperature range of -10°C to 50°C. It is applicable to industries such as semiconductor inspection, smart education, unmanned retail, edge-side servers, etc.

IO Layout

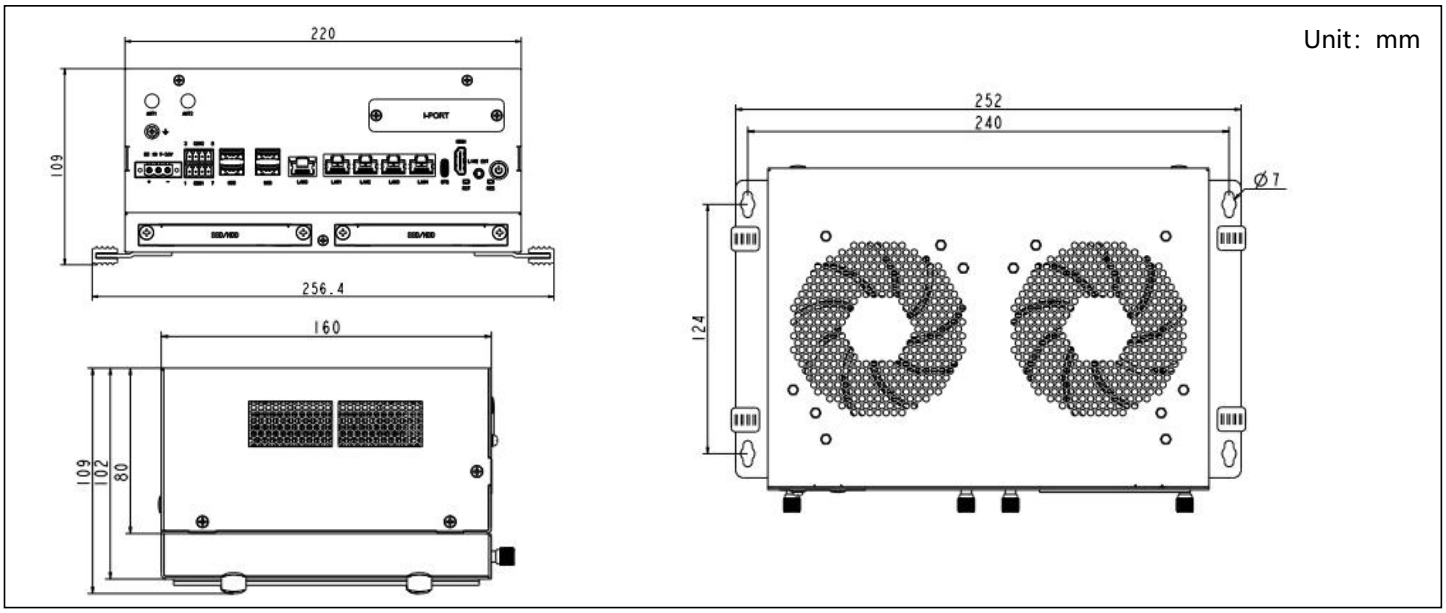


Product SPEC

CPU	12*Cores Arm® Neoverse®-V3AE 64-bit CPU 1MB L2 + 16MB L3，Maximum CPU Frequency up to 2.6 GHz(T001) 14*Cores Arm® Neoverse®-V3AE 64-bit CPU 1MB L2 + 16MB L3，Maximum CPU Frequency up to 2.6 GHz(T002)
GPU	1536*Cores NVIDIA Blackwell Architecture GPU 1.57GHz, with 64*Tensor Cores；6 TPC Multi-Instance GPUs(T001) 2560*Cores NVIDIA Blackwell Architecture GPU 1.57GHz, with 96*Tensor Cores；10 TPC Multi-Instance GPUs(T002)
AI performance	Maximum Inference Performance up to 1200(T001)/2070(T002) TFLOPS(FP4)
Memory	Onboard 64GB(T001)/128GB(T002) 256 bit LPDDR5，the maximum bandwidth up to 273 GB/S
Expansion	2*M.2 2280 M-Key , 1*M.2 3042/3052 B-Key +SIM，1*MiniPCIe
Graphics	Video code： 6x4Kp60（H.265）；12x4Kp30(H.265)；24x 1080p60 (H.265) 50x1080p30（H.265）；48x1080p30 (H.264)；6x 4Kp60 (H.264) Video code： 4x8Kp30（H.265）；10x4Kp60(H.265)；22x4Kp30(H.265)；46x 1080p60 (H.265) 92x1080p30（H.265）；82x1080p30 (H.264)；4x 4Kp60 (H.264)
Audio	Realtek ALC5640 audio，1*Line-out+1*Mic（Wafer）； 1*HDMI Type-A
LAN	4*GbE LAN RJ45, 1*10 GbE LAN RJ45;
Storge	2*M.2 2280 M-Key(support NVMe Ultra-High-Speed Solid-State Storage)，2*SATA3.0（expanded via MiniPCIe, support Soft RAID)
I/O interface	4*USB3.2（Type-A），1*OTG（USB2.0 Type-C），2*CANFD（Wafer）； 1*RS485 + 1*RS232（2*5pin Term）；1*UART（Wafer）；1*Debug（Wafer）；

LED	1*Power LED(on power button), 1*Running light
Control SW	1* Power button w/LED, 1*RST button, 1*REV button
Power Supply	DC 9~36V wide power input, 3-pin 5.08mm terminal block，with OVP,OCP and SCP；5V/12V DC-OUT（Wafer）
OS Support	Linux Ubuntu 24.04 with JetPack 7.0+
Structure	Fan-cooled Enclosure, SGCC Cabinet
Color	Granite gray + Graphite black
Mounting	Desktop Mounting with Shock-absorbing Anti-slip Feet
Dimension	Main box(L*W*H)：220*160*102mm（without installation bracket）
Net weight	3.9kg
Operating temperature	Maximum support range -10℃～50℃
Storage Temperature	-40°C~85°C
Storage Humidity	10~90%@40°C, Non-condensing
Vibration	5grms/5~500Hz/random/in working (SSD，HDD);
Shock	50g peak acceleration(11ms duration)(SSD，HDD);
EMC/Certification	CE/FCC Class A

Dimension



Ordering Info.

Model No.	Module	Introduction
BRAV-7138-T001	Jetson AGX Thor 64GB memory（T4000）	4*GbE, 1*10GbE, 4*USB3.2, 1*OTG, 1*HDMI, 1*Line out +1*Mic, 1*RS485+1*RS232+2*UART, 2*CAN FD，2*M.2 M-Key，1*M.2 B-Key+SIM, 1*MiniPCIe, 1*I-port，DC-IN 9~36V, 1*DC-OUT 5v+12v ECB-3020：MiniPCIe to Dual SATA 3.0 Add-in Card (Same Part Number as Dual-SATA Structural Option, T-Series Configuration)
BRAV-7138-T002	Jetson AGX Thor 128GB memory（T5000）	
PA-120DC19	AC/DC power adapter，DC19V/6.32A,120W	
PA-220DC24	AC/DC power adapter，DC24V@9.17A ,220W	