BRAV-7136

NVIDIA Jetson AGX Orin 32/64GB, 1*GbE, 1*10GbE, 3*USB2.0,1*OTG,1*GPI
1*RS232+1*RS485+1*UART, 2*M.2 M key, 1*HDMI, DC 9~16V

JHCTECH IoT Computer Connecting the Dots

MEC System——BARV Series



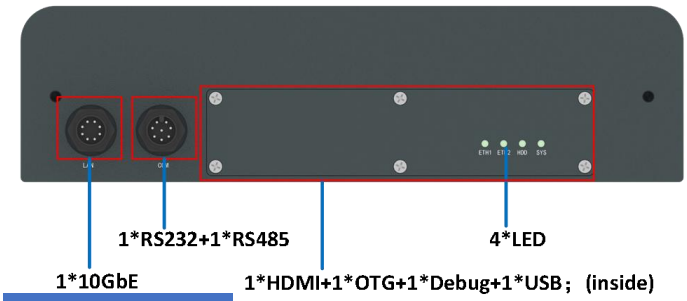
Key Features

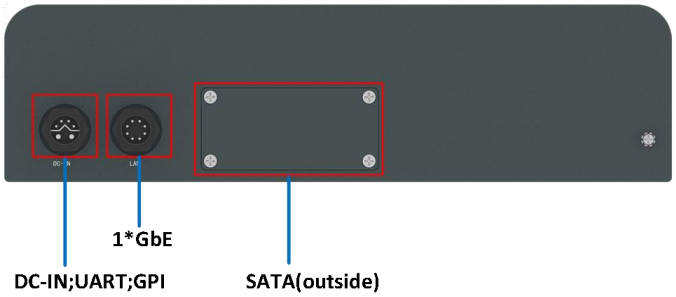
- NVIDIA Jetson AGX Orin 32/64G, 200/275TOPS
- 8/12*Cores ARM Cortex-A78AE CPU, 2.2GHz(maximum frequency)
- NVIDIA Ampere GPU with Tensor Cores
- Onboard 32/64G 256-bit LPDDR5 RAM and 64GB eMMC, 2*M.2 M-Key
- 1*HDMI, 1*GbE, 1*10GbE, 2*USB2.0, 1*USB2.0 (inside) ,1*OTG,1*GPI, 1*RS232+1*RS485+1*UART
- DC9~16V wide power input, with OVP,OCP and SCP
- IP65
- Aluminum-magnesium alloy chassis, Fanless cooling design;
- Maximum support -25-70 temperature range

Product Overview

BRAV-7136 is equipped with NVIDIA Jetson AGX Orin 32/64GB module, 8/12 cores ARM CPU and high performance GPU, up to 200/275TOPS AI performance, onboard 32/64G memory and 64G storage.Maximum support -25-70 temperature range , DC 9-16V wide voltage power supply. It can be used as MEC(Multi-Access Edge Computing) for intelligent transportation, machine vision, intelligent logistics and other industries.

IO Layout



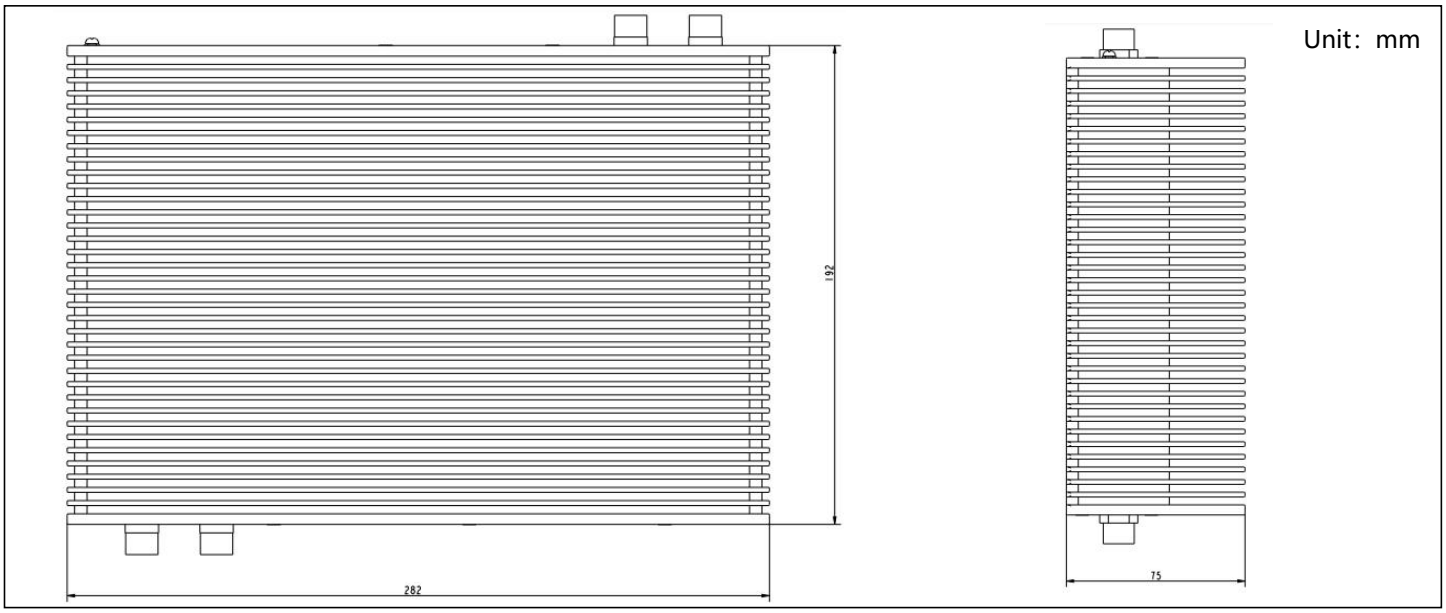


Product SPEC

CPU	8*Cores Arm® Cortex®-A78AE v8.2 64-bit CPU 2MB L2+4MB L3, maximum frequency 2.2GHz(S001); 12*Cores Arm® Cortex®-A78AE v8.2 64-bit CPU 3MB L2+6MB L3,maximum frequency 2.2 GHz(S002)
GPU	1792*Cores NVIDIA Ampere Architecture GPU 930MHz, with 56*Tensor Cores(S001) 2048*Cores NVIDIA Ampere Architecture GPU 1.3GHz, with 64*Tensor Cores(S002)
DL Accelerator VS Accelerator	2*NVDLA v2, PVA v2.0, AI performance up to 200(S001)/275(S002) TOPS(INT8)
Memory	Onboard 32GB(S001)/64GB(S002) 256-bit LPDDR5, the maximum bandwidth up to 204.8GB/s
Expansion	2*M.2 2280 M-Key , support NVMe high-speed memory card
Graphics	Video code : (H.265)H.264, AV1:1 *4K60,3*4K30,6*1080p60,12*1080p30 (S001);2*4K60,4*4K30,8*1080p60,16*1080p30 (S002); Video decode : (H.265)H.264, VP9, AV: 1*8K30,2*4K60,4*4K30,9*1080p60,18*1080p30(S001); 1*8K30,3*4K60,7*4K30,11*1080p60,22*1080p30(S002); The highest resolution of HDMI 2.0 is 4096*2304@60Hz
LAN	1*GbE, 1*10GbE
Storge	Onboard 64GB eMMC 5.1 , 2*M.2 2280 M-Key(NVMe) , 1* SATA3.0(outside)
DIO and serial port	1*RS485 + 1*RS232 + 1*UART+1*GPI [M12]
I/O Interface	1*HDMI, 2*USB2.0, 1*USB2.0 (inside), 1*OTG,1*Debug

LED	2*Network LED, 1*HDD LED, 1*System Status LED
Control SW	1* Power button w/LED, 1*RST button, 1*REV button
Power Supply	DC 9~16V wide power input, 3-pin 3.81mm terminal block，with short circuit, over voltage and over current protection
OS Support	Linux Ubuntu 22.04 with JetPack 6.2
Structure	Aluminum-magnesium alloy chassis, Fanless Cooling, SGCC frame
Color	silver gray
Dimension	(L*W*H)：Main box：282*192*75mm；
Operating temperature	Maximum support -25-70 temperature range
Storage Temperature	-40°C~85°C
Storage Humidity	10~90%@40°C, Non-condensing
Certification /EMC	CE/FCC Class A

Dimension



Ordering Info.

Model No.	Module	Introduction
BRAV-7136-S001	Jetson AGX Orin 32GB memory，64GB eMMC	standard configuration：1*GbE, 1*10GbE；1*HDMI+2*USB2.0+1*OTG+1*Debug，1*RS485+1*RS232+1*UART+1*GPI，2*M.2 M-Key，1*USB2.0(inside)，DC-IN 9~16V
BRAV-7136-S002	Jetson AGX Orin 64GB memory，64GB eMMC	