

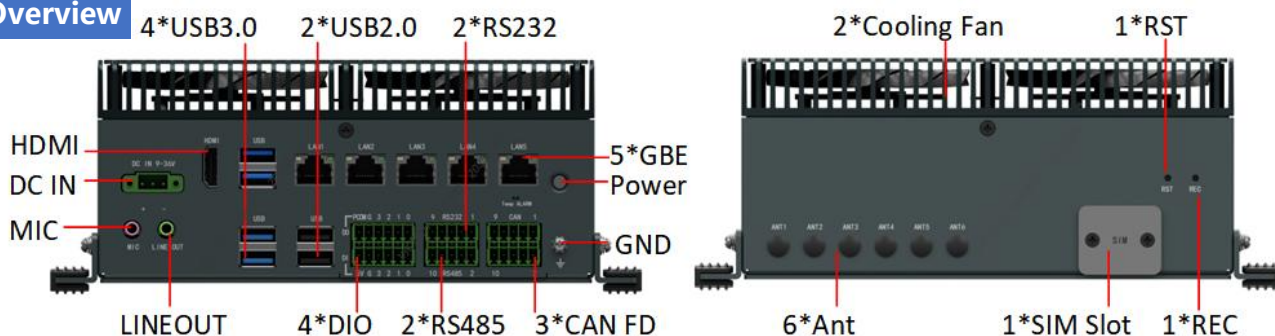
### Key Features

- NVIDIA Jetson AGX Orin 32/64G, 200/275TOPS
- Onboard 32/64G 256bit LPDDR5 Ram
- Support 1\*M.2 2280 M-Key NVMe SSD
- 1\*HDMI, 1\*line out, 1\*MIC
- 5\*LAN, 4\*USB3.2, 3\*CAN-FD
- 2\*RS485, 2\*RS232, 2\*USB2.0, 8-bit DIO
- 1\*M.2 B-Key support 4G LTE or 5G NR
- 1\*M.2 E-Key support Wifi&BT wireless routes
- DC9~36V wide power input, with OVP, OCP and SCP
- Compact size, aluminum extrusion profile shell, combined active and passive heat dissipation structure

### Product Overview

BRAV-7135 is equipped with NVIDIA AGX Orin 32/64GB module, 8/12 cores ARM CPU and high performance GPU, up to 200/275TOPS computility, onboard 32/64G memory, rich IO interface resources, DC 9-36V wide voltage power supply. It can be used as the main controller for Android, intelligent logistics, machine vision and other industries.

### Interface Overview

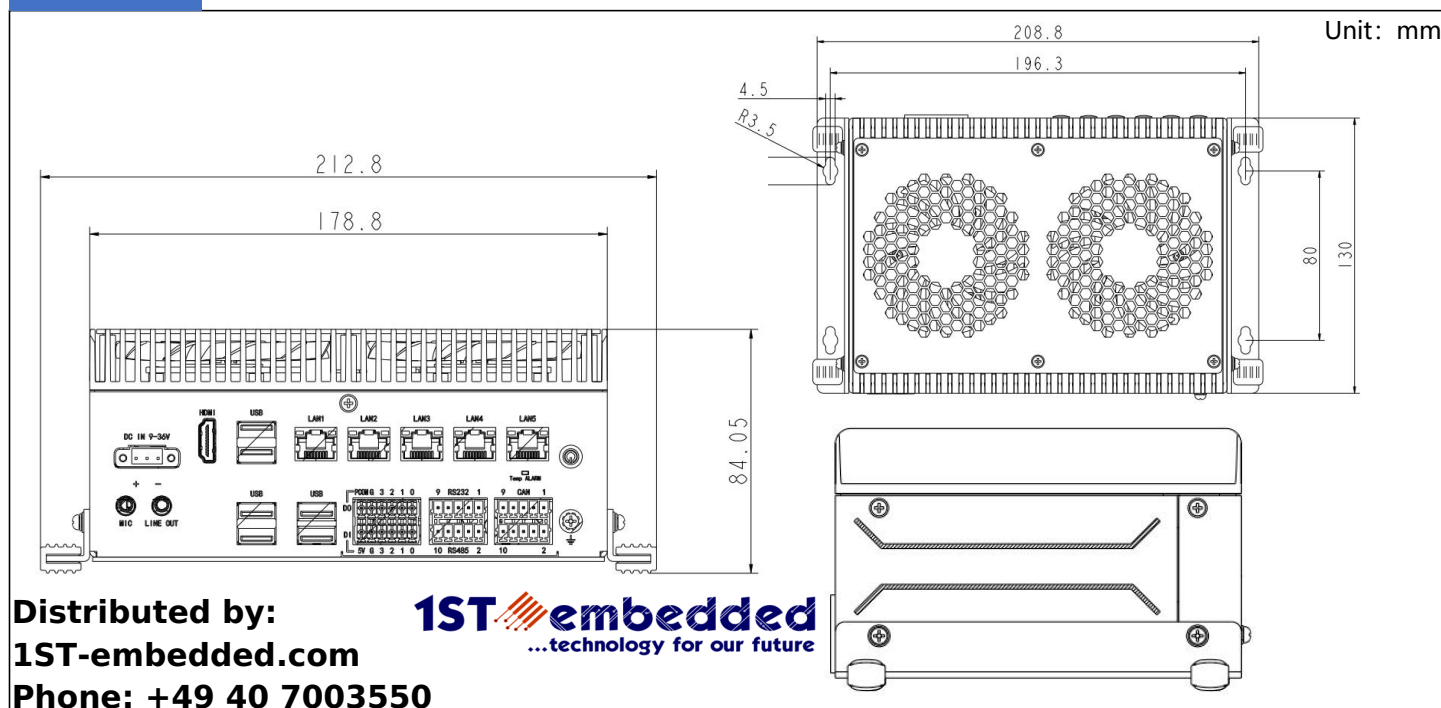


### Product SPEC

|                |                                                                                                                                                                                                                                                                                                   |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CPU            | 8*Cores Arm® Cortex®-A78AE v8.2 64-bit CPU 2MB L2+4MB L3, maximum frequency 2.2GHz(S001);<br>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)<br>2048*Cores NVIDIA Ampere Architecture GPU 1.3GHz, with 64*Tensor Cores(S002)                                                                                                                                      |
| Performance    | 200TOPS(S001), 275TOPS(S002)                                                                                                                                                                                                                                                                      |
| Memory         | Onboard 32GB(S001)/64GB(S002) 256-bit LPDDR5, the maximum bandwidth up to 204.8GB/s                                                                                                                                                                                                               |
| Storge         | 1*M.2 Type 2280 M-Key, PCIeX4 signal, support NVMe high-speed memory card                                                                                                                                                                                                                         |
| Graphics/Audio | 1*HDMI 2.0 interface, 1*line out, 1*MIC, Realtek ALC5640 audio, support stereo channel output                                                                                                                                                                                                     |
| LAN            | 5*Intel I210AT PCIe Gig. Ethernet, 10/100/1000Mbps                                                                                                                                                                                                                                                |
| USB            | 4*USB3.2(Type A), 2*USB2.0(Type A)                                                                                                                                                                                                                                                                |
| CAN            | 3* isolation CAN FD (Phoenix terminal interface)                                                                                                                                                                                                                                                  |
| COM            | 2*2.5KV Iso. RS232, 2*2.5KV Iso. RS485 (Phoenix terminal interface)                                                                                                                                                                                                                               |
| DIO            | 4-bit 2.5KV Iso. DI , 4-bit 2.5KV Iso. DO (Phoenix terminal interface)                                                                                                                                                                                                                            |
| Expansion      | 1*M.2 3042/3052 B-key, with SIM card slot, PCIe X1 + USB2.0 signal, support 4G LTE or 5G NR wireless function module;<br>1*M.2 2230 E-Key , PCIe X1 + USB2.0 signal, support gigabit bandwidth WiFi6/BT5.0<br>I-PORT reserved extended internal onboard signal (2*PCIeX1, 2*USB2.0, 2*I2C, 2*SPI) |

|                       |                                                                                                                                |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------|
| LED                   | 1*Power LED(on power button), 1*CPU temp warning LED                                                                           |
| Control SW            | 1* Power button w/LED, 1*RST button, 1*REC button                                                                              |
| Power Supply          | DC 9~36V wide power input, 3-pin 3.81mm terminal block, with short circuit, over voltage and over current protection, TDP: TBD |
| OS Support            | Linux Ubuntu 22.04 with JetPack6.2                                                                                             |
| Structure             | Aluminum-magnesium alloy chassis, fan Cooling, SGCC frame                                                                      |
| Color                 | Granite gray + Graphite black                                                                                                  |
| Mounting              | Desktop Mounting with anti-vibration rubber pads                                                                               |
| Dimension             | (L*W*H): Main box: 178.8*130*84mm; Including mounting bracket: 212.8*130*84mm                                                  |
| Net weight            | 2.55 KG                                                                                                                        |
| Operating temperature | -20°C ~ 60°C, airflow                                                                                                          |
| Storage Temperature   | -40°C~85°C                                                                                                                     |
| Storage Humidity      | 10~90%@40°C, Non-condensing                                                                                                    |
| Vibration             | 5grms/5~500Hz/random/in working (SSD); 1grms/5~500Hz/random/in working (HDD)                                                   |
| Shock                 | 50g peak acceleration(11ms duration)(SSD); 20g peak acceleration(11ms duration)(HDD)                                           |
| Certification/EMC     | CE/FCC Class A                                                                                                                 |

## Dimension



## Ordering Info.

| Model No.      | Module                                 | Introduction                                                                                                                                                 |
|----------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BRAV-7135-S001 | Jetson AGX Orin 32GB memory, 64GB eMMC | 1*HDMI, 5*RJ45, 4*USB3.2, 2*USB2.0, 2*RS485, 2*RS232, 3*Iso. CAN, 8-bit Iso. DIO, 1*Line out, 1*MIC, 1*M.2 B-Key w/SIM,1*M.2 E-key, 1*M.2 M-Key, DC-IN 9~36V |
| BRAV-7135-S002 | Jetson AGX Orin 64GB memory, 64GB eMMC |                                                                                                                                                              |
| PA-120DC19     | AC/DC power adapter, DC19V/6.32A,120W  |                                                                                                                                                              |