# DLAP-411-Orin

Compact Edge AI Platform for Various AI and AMR Applications

## Features

- Embedded with NVIDIA® Jetson AGX Orin™ module, delivering up to 275 TOPS
- Provide 4 PoE and 4 USB 3.2 Gen 2, supporting up to 8 cameras
- Fanless design with a compact size of 175(W) x 145(D) x 85(H) mm
- Support Linux® Ubuntu 22.04 and Jetpack 6.0
- Built-in Out-of-Band (OOB) module for remote device control
- Seamless integration of Isaac™ Perceptor technologies
- Development kit (without chassis SKU) is available for purchase




60°C
-20°C

## Ordering Information

| PN | Model Name | NVIDIA Module | NVIDIA Module Memory | NVIDIA Module eMMC |
|---|---|---|---|---|
| 93-45108-1010 | DLAP-411-Orin | Jetson AGX Orin | 32GB | 64GB (pre-installed) |
| 93-45108-0010 | DLAP-411-Orin w/ PSE | Jetson AGX Orin | 32GB | 64GB (pre-installed) |
| 93-45108-2010 | DLAP-411-Orin w/ OOB | Jetson AGX Orin | 32GB | 64GB (pre-installed) |
| 93-45108-3010 | DLAP-411-Orin 64GB | Jetson AGX Orin | 64GB | 64GB (pre-installed) |
| 93-45108-4010 | DLAP-411-Orin 64GB w/ PSE | Jetson AGX Orin | 64GB | 64GB (pre-installed) |
| 93-45108-2210 | DLAP-411-Orin 64GB w/OOB | Jetson AGX Orin | 64GB | 64GB (pre-installed) |
| 93-45108-2110 | DLAP-411-Orin 64GB w/ 10GbE | Jetson AGX Orin | 64GB | 64GB (pre-installed) |

## Packing List*

| PN | Description | QTY |
|---|---|---|
| 93-45108-XX10 | DLAP-411-Orin | 1 |
| 33-70003-2000 | Standoff A,M3,H5,Ni | 2 |
| 46-20301-0000-A0 | Screw M3,I-head,L4 | 3 |
| 47-90004-0010 | Technical service card | 1 |
| 50-40375-9000 | Template A of both CN & TW RoHS Declarat | 1 |

* Power adapter not included. Please order separately if needed.



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## Optional Accessories

| PN | Description | Note |
|---|---|---|
| 29-E8852-A000 | Wifi module, M2-R8852BE | Wi-Fi module only. Order 2 antennas (30-60125-1000-B0) if needed. |
| 29-D3096-K030 | 5G module, MV31-W | 5G module only. Order 4 antennas (30-60192-0000-A0) if needed. |
| 29-D0520-G000 | 5G module, Quectel RM520N-GL | 5G module only. Order 4 antennas (30-60192-0000-A0) if needed. |
| 29-D0034-8010 | 4G/LET module, Sierra EM7565 | 4G/LTE module only. Order 2 antennas (30-60192-0000-A0) if needed. |
| 30-60125-1000-B0 | Antenna, WIFI Dual band Antenna 6E | Order in sets of 2. |
| 30-60192-0000-A0 | Antenna, RP-SMA(M), 5G NR Sub-6 | Order in sets of 2 or 4. |
| 31-62120-0020 | Power adapter, GST160A24-AD | For non-PSE SKU, order this power adapter. |
| 31-62149-0000 | Power adapter, GST220A24-AD | For PSE SKU, order this power adapter. |
| 91-95221-0010 | Wall mounting Kit | |
| 95-35200-4100 | M2 NVMe SSD, ASDEM8EDE-128GP0 | |
| 95-35200-5100 | M2 NVMe SSD, ASDEM8EDE-256GP0 | |
| 95-35200-6100 | M2 NVMe SSD, ASDEM8EDE-512GP0 | |
| 95-35200-7100 | M2 NVMe SSD, ASDEM8EDE-1TBT0 | |
| 95-35200-8100 | M2 NVMe SSD, ASDEM8EDE-2TBT0 | |



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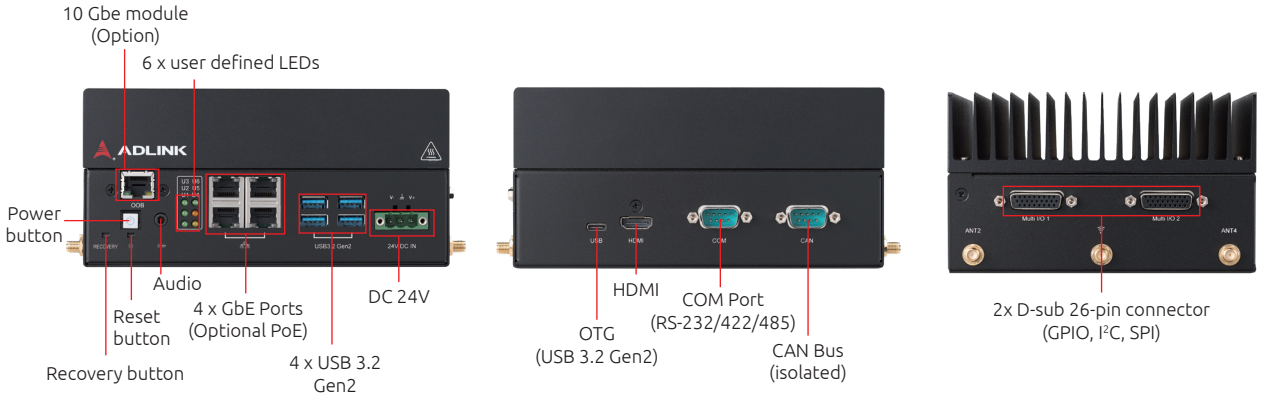
## Specifications

| Model | 200 TOPS | 275TOPS |
|---|---|---|
| **System Core** | | |
| GPU | NVIDIA Ampere architecture with 1792 NVIDIA® CUDA® cores and 56 Tensor Cores | NVIDIA Ampere architecture with 2048 NVIDIA® CUDA® cores and 64 Tensor Cores |
| CPU | 8-core Arm® Cortex®-A78AE v8.2 64-bit CPU 2MB L2 + 4MB L | 12-core Arm® Cortex®-A78AE v8.2 64-bit CPU 3MB L2 + 6MB L3 |
| RAM | 32GB 256-bit LPDDR5 | 64GB 256-bit LPDDR5 |
| Storage | 64GB eMMC 5.1 | |
| OS | Linux® Ubuntu | |
| **Front I/O Interfaces** | | |
| Button | 1x power, 1x reset, 1x recovery | |
| HDMI | 1x HDMI (Max. resolution 3840x2160 @ 60Hz) | |
| USB | 4x USB 3.2 Gen2 Type-A | |
| Ethernet | 4x 10/100/1000Mbps Ethernets (Optional PoE support, IEEE 802.3af/at) | |
| Audio | Mic-in (Mono), Line-out (Stereo) | |
| I/O Connector | 2x D-sub 26-pin connector (GPIO, I2C, SPI) provide cable for expansion | |
| **Back I/O Interfaces** | | |
| USB | 1x USB 3.2 Gen2 Type-C (OTG) | |
| Serial Port | 1x COM RS-232/RS-422/RS-485 (DB9) | |
| CAN Bus | 1x 2.0b, isolated (DB9) | |
| **Extension Slots** | | |
| M.2 | 1x M.2 M key 2242 and 2280 PCIe Gen4<br>1x M.2 B key 3042 and 3052 for 5G/LTE<br>M.2 E key 2230 for Wifi | |
| SD Card Slot | 1x MicroSD Slot | |
| Out-Of-Band (OOB) | Support Ethernet and Wifi, monitoring and managing at remote locations<br>(thermal sensor, remote power on/off, restart, monitor debug port detection device status.) | |
| 10GbE | Support 10G/5G/2.5G/1000M/100M/10M LAN speed | |
| **LED indicator** | | |
| LED | 6x user defined LEDs | |
| **Power Requirements** | | |
| DC Input | 24V | |
| AC Input | 160 up to 220W power adapter | |
| Power switch | 1x Power ON/OFF Button (AT/ATX , Default : AT) | |
| **Mechanical** | | |
| Dimensions (W x D x H) | 175x 145x 85mm | |
| Weight | 2.2 kg | |
| Mounting | Wall mount, VESA DIN rail (optional) | |
| SMA Antenna Connector | 6 | |
| **Environmental** | | |
| Operating Temperature | For 32GB<br>-20°C to 60°C with 0.6m/s airflow, at 40W<br>(without wifi module, M.2 SSD)<br>-20°C to 55°C with 0.6m/s airflow, at MAXN (without wifi module, M.2 SSD)<br>For 64GB<br>-20°C to 55°C with 0.6m/s airflow, at 50W<br>(without wifi module, M.2 SSD)<br>-20°C to 40°C with 0.6m/s airflow, at MAXN (without wifi module, M.2 SSD)<br>For 64G w/10GbE<br>0°C to 55°C with 0.6m/s airflow, at 50W (without wifi module, M.2 SSD) | |
| Operating Humidity | ~95% @40°C (non-condensing, optional with fanless solution) | |
| Storage Temperature | -40°C to 85°C | |
| Vibration | Operating 5Grms, 5-500Hz, 3 axes w/M.2 SSD | |
| Shock | Operating 100G, half sine 11ms duration w/ SD, M.2 SSD | |
| ESD | Contact ± 4kV, Air ± 8kV | |
| Regularity | CE & FCC class B, (EN61000-6-4/-6-2), CE-LVD & UL by CB, FCCID | |
| **Internal** | | |
| Thermal sensor | 1x Thermal sensor | |
| **F/W Support** | | |
| WDT | WDT supported | |

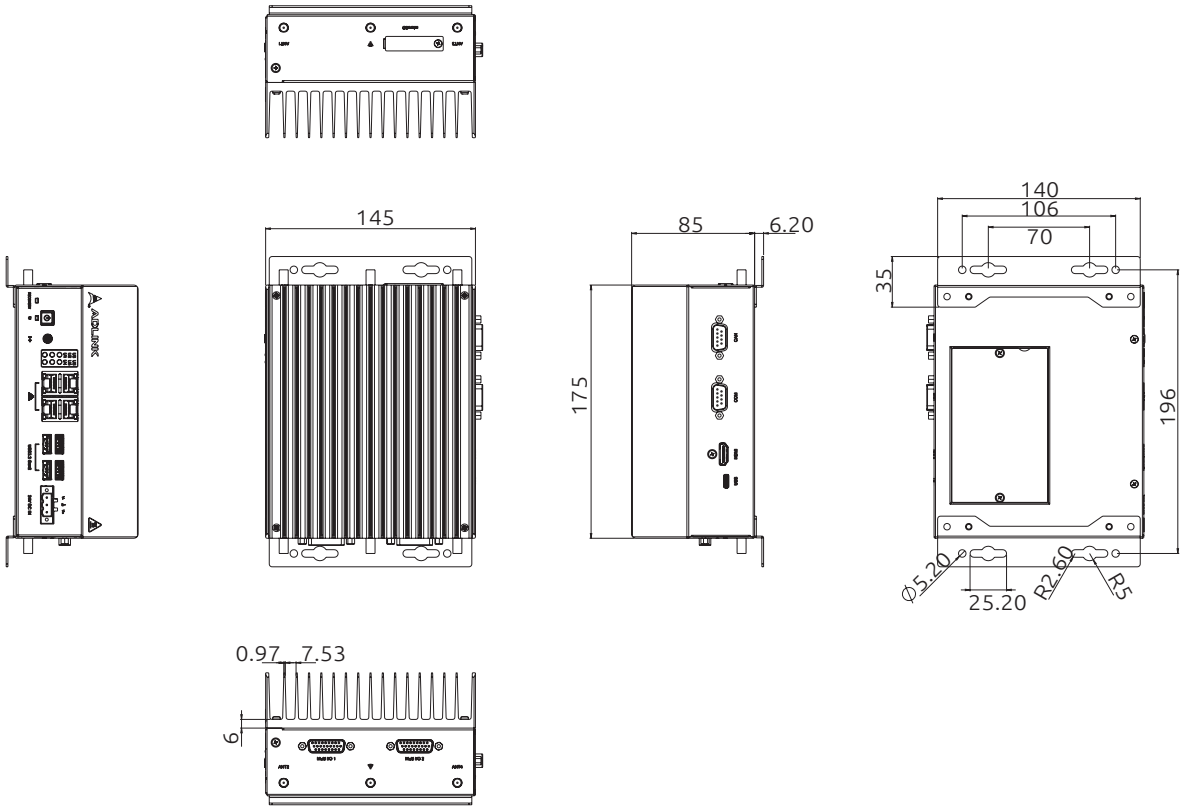


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## I/O View




## Product Dimensions and Illustration




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