

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



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.

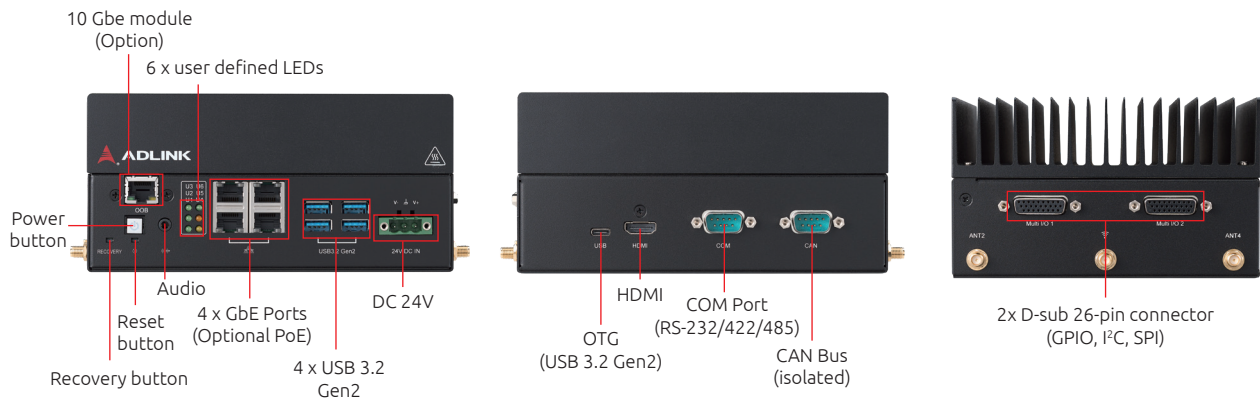
Optional Accessories

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	

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 L3	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 Ethernet (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 1x M.2 B key 3042 and 3052 for 5G/LTE 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 (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 -20°C to 60°C with 0.6m/s airflow, at 40W (without wifi module, M.2 SSD) -20°C to 55°C with 0.6m/s airflow, at MAXN (without wifi module, M.2 SSD) For 64GB -20°C to 55°C with 0.6m/s airflow, at 50W (without wifi module, M.2 SSD) -20°C to 40°C with 0.6m/s airflow, at MAXN (without wifi module, M.2 SSD) For 64G w/10GbE 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	

I/O View



Product Dimensions and Illustration

