

# DLAP-411-Orin

Edge AI Platform Powered by  
 NVIDIA® Jetson AGX Orin™

Preliminary



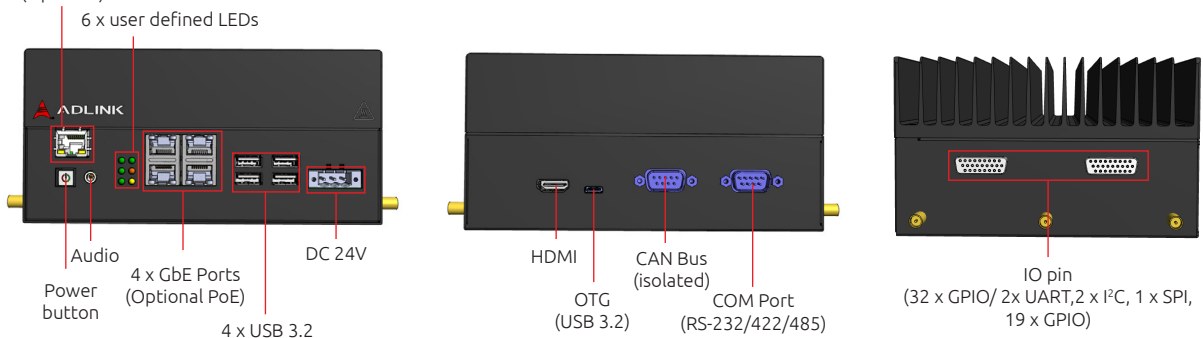
## Features

- NVIDIA® Jetson AGX Orin processing/inference engine  
 8-core Carmel Arm 64-bit CPU, 1792-Core Ampere GPU,  
 32 GB LPDDR5, 64 GB eMMC
- Fanless compact inference platform
- 4 GbE PSE Port(Optional), 4 USB 3.2, 1 OTG /Type C USB 3.2,  
 1 CAN bus (isolated) 1 COM(RS232/422/485), IO pin  
 (32 x GPIO/ 2x UART,2 x I<sup>2</sup>C, 1 x SPI, 19 x GPIO).
- 6 user defined LEDs, 1 Audio, 1 HDMI.
- M.2 2230 E key (Wifi6), 3042/3052 B key (5G), 2242/2280 M  
 key (nvme).
- Remote control by Allxon Out-Of-Band (OOB) (optional)
- 24 V DC input, OCP.
- Operating Temp: -20 to +50°C
- Compact Size: 175(W) x 145(D) x 85(H) (mm)

## Software Support

- Linux Ubuntu 20.04/22.04

OOB module  
 (Optional)



## Specifications

Model	DLAP-411-Orin
<b>System Core</b>	
GPU	NVIDIA Ampere architecture with 1792 NVIDIA® CUDA® cores and 56 Tensor Cores
CPU	8-core Arm® Cortex®-A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3
RAM	32GB 256-bit LPDDR5
Storage	64GB eMMC 5.1
OS	Linux® Ubuntu
<b>Front Panel I/O Ports</b>	
Button	1x power, 1x reset, 1x recovery
HDMI	1x HDMI (Max. resolution 3840x2160 @ 60Hz)
USB	4x USB 3.0 Type-A
Ethernet	4x 10/100/1000Mbps Ethernet (Optional PoE support, IEEE 802.3af/at)
Audio	Mic-in, line-out
Expansion I/O	1x D-sub 37-pin connector (GPIO,I <sup>2</sup> C,SPI,UART)
<b>Back Panel I/O Ports</b>	
USB	1x USB 3.0 Type-C (OTG)
Serial Port	1x COM RS-232/RS-422/RS-485 (DB9)
CAN Bus	1x 2.0b (DB9)
<b>Extension</b>	
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 Micro SIM Slot (support )
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.)
<b>LED indicator</b>	
LED	6x user defined LEDs
<b>Power Requirements</b>	
DC Input	24V (OVP,OCP)
AC Input	160W power adapter
Power switch	1x Power ON/OFF Button (AT/ATX , Default : AT)
<b>Mechanical</b>	
Dimensions (W x D x H)	175x 145x 85mm
Weight	TBD
Mounting	Wall mount, VESA DIN rail (optional)
SMA Antenna Connector	6
<b>Environmental</b>	
Operating Temperature	Standard -20°C to 50°C (system level), -25°C to 85°C (board level)
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
<b>Internal</b>	
Thermal sensor	1x Thermal sensor
<b>F/W Support</b>	
WDT	WDT supported
Wake on LAN	Wake on LAN supported

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