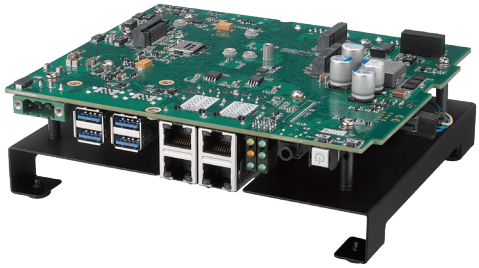
DLAP-411-Orin Dev kit

Edge AI Platform Powered by
NVIDIA® Jetson AGX Orin™

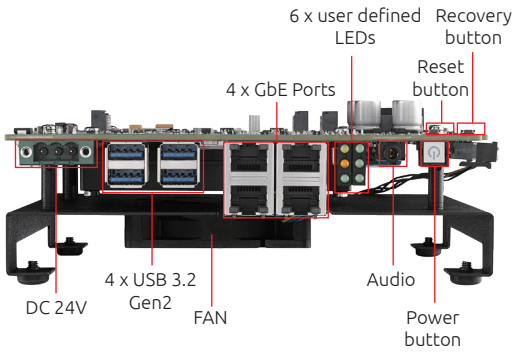


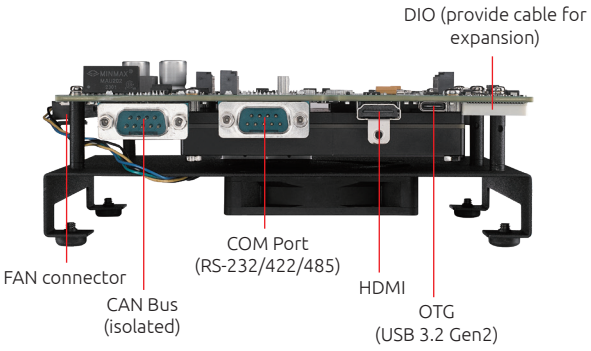
Features

- NVIDIA® Jetson AGX Orin processing/inference engine 8/12-core Carmel Arm 64-bit CPU, 1792/2048-Core Ampere GPU, 32/64GB LPDDR5, 64 GB eMMC with 56/64 Tensor Cores
- 4 GbE POE Port (Optional), 4 USB 3.2 Gen2, 1 OTG/Type C USB 3.2 Gen2, 1 CAN bus (isolated) 1 COM (RS-232/422/485), IO connector (GPIO, I²C, SPI)
- 6 user defined LEDs, 1 Audio, 1 HDMI
- 24 V DC input, OCP
- Edge AI model management and OTA (over the air) provisioning powered by Scailable
- Monitoring, alerts and updates are empowered by Allxon Device Management Solutions (Allxon DMS)
- Remote control by Allxon Out-Of-Band (OOB) (optional)
- An Edge-Native and Web-Based Platform that Simplifies Configuration, Monitoring, and Consolidation of Applications Running on Connected Devices by EdgeGO

Software Support

- Linux





Ordering Information

DLAP-411-Orin Dev kit	Powered by NVIDIA® Jetson AGX Orin™ 32GB
DLAP-411-Orin Dev kit w/PSE	Powered by NVIDIA® Jetson AGX Orin™ 32GB, support 4 GbE Ports (PoE)
DLAP-411-Orin Dev kit w/OOB	Powered by NVIDIA® Jetson AGX Orin™ 32GB, with OOB module
DLAP-411-Orin Dev kit w/PSE w/OOB	Powered by NVIDIA® Jetson AGX Orin™ 32GB, support 4 GbE Ports (PoE), with OOB module
DLAP-411-Orin Dev kit 64GB	Powered by NVIDIA® Jetson AGX Orin™ 64GB
DLAP-411-Orin Dev kit 64GB w/PSE	Powered by NVIDIA® Jetson AGX Orin™ 64GB, support 4 GbE Ports (PoE)
DLAP-411-Orin Dev kit 64GB w/OOB	Powered by NVIDIA® Jetson AGX Orin™ 64GB, with OOB module
DLAP-411-Orin Dev kit 64GB w/PSE w/OOB	Powered by NVIDIA® Jetson AGX Orin™ 64GB, support 4 GbE Ports (PoE), with OOB module

Optional Accessories

GST160A24-AD	Power adapter, for DLAP-411-Orin w/o PSE OP Temp Max: 55°C For DLAP-411-Orin w/ PSE OP Temp Max: 40°C
GST220A24-AD	Power adapter, for DLAP-411-Orin w/ PSE OP Temp Max: 55°C
THALES MV31-W	5G module, M.2 B-key 3042 5G-FR1/4G/3G module
Quectel RM520N-GL	5G module, M.2 B-key 5G/4G/3G/GNSS module QUECTEL_RM520N-GL
Sierra EM7565	4G/LTE module, M.2 B-key LTE/HSPA+ module Sierra Wireless, EM7565
ENL-R8852BE	Wi-Fi 6 module, Wi-Fi 6 (11a/b/g/n/ac/ax 2Tx2R) + BT (V5.2) M.2 Type 2230 Combo Module LITEON_ENL-R8852BE(RTL8852BE)
ASDEM8EDE-128GP0	M.2 SSD, Temp.-25°C to +85°C M.2 2280 PCIe Gen3x4
ASDEM8EDE-256GP0	M.2 SSD, Temp.-25°C to +85°C M.2 2280 PCIe Gen3x4
ASDEM8EDE-512GP0	M.2 SSD, Temp.-25°C to +85°C M.2 2280 PCIe Gen3x4
ASDEM8EDE-1TBT0	M.2 SSD, Temp.-25°C to +85°C M.2 2280 PCIe Gen3x4
ASDEM8EDE-2TBT0	M.2 SSD, Temp.-25°C to +85°C M.2 2280 PCIe Gen3x4

Specifications

Model	Jetson AGX Orin 32GB	Jetson AGX Orin 64GB
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	
Front Panel I/O Ports		
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, I^2C, SPI) provide cable for expansion	
Back Panel I/O Ports		
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		
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 5/6	
SD Card Slot	1x Micro SIM 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.)	
LED indicator		
LED	6x user defined LEDs	
Power Requirements		
DC Input	24V (OCP)	
AC Input	160 up to 220W power adapter	
Power switch	1x Power ON/OFF Button (AT/ATX , Default : AT)	
Internal		
Thermal sensor	1x Thermal sensor	
F/W Support		
WDT	WDT supported	

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