

# DLAP-211-Orin Series DLAP-211-JNX/JT2/Nano

Edge AI Platform Powered by NVIDIA®  
Jetson Xavier™ NX/ Jetson™ TX2 NX/  
Jetson Nano™/Jetson Orin™ NX /  
Jetson Orin™ Nano



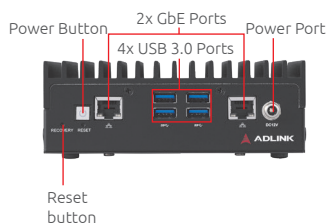
## Features

- D-Deep learning acceleration via NVIDIA® Jetson Orin NX/ Nano™ or Xavier NX™ or TX2 NX™ or Nano™ modules
- Compact, durable, and fanless design for 24/7 operation
- Extended operating temperature range from -20°C to 70°C for the system, and -20°C to 85°C for the board
- Versatile I/O ports with optional FM board extension
- Ideal for diverse AI applications like Smart City, Retail, Manufacturing, and more
- 8 SKUs available:  
DLAP-211-Orin NX 8G/16G  
DLAP-211-Orin Nano 4G/8G  
DLAP-211-Orin NXS 8G/16G(with AFM)  
DLAP-211-Orin NanoS 4G/8G(with AFM)

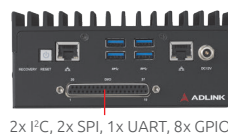
## Software Support

- Supports the latest Linux® OS and Jetpack SDK 5.1.2
- Supports a diverse range of SDKs, including EdgeGO and Allxon for remote device management, EVA for vision AI model training, and Scalable for mass AI models deployment

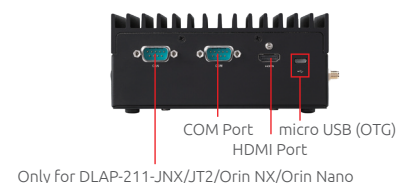
DLAP-211-JNX/JT2/Nano/Orin NX/Orin Nano



DLAP-211-JNXS/JT2S/NanoS  
Orin NXS/Orin NanoS



DLAP-211 Series (backside)



## Ordering Information

DLAP-211-Orin NX 8GB	Powered by NVIDIA® Jetson Orin™ NX 8GB
DLAP-211-Orin NXS 8GB	Powered by NVIDIA® Jetson Orin™ NX 8GB, 2x I <sup>2</sup> C, 2x SPI, 1x UART, 8x GPIO
DLAP-211-Orin NX 16GB	Powered by NVIDIA® Jetson Orin™ NX 16GB
DLAP-211-Orin NXS 16GB	Powered by NVIDIA® Jetson Orin™ NX 16GB, 2x I <sup>2</sup> C, 2x SPI, 1x UART, 8x GPIO
DLAP-211-Orin Nano 4GB	Powered by NVIDIA® Jetson Orin™ Nano 4GB
DLAP-211-Orin NanoS 4GB	Powered by NVIDIA® Jetson Orin™ Nano 4GB, 2x I <sup>2</sup> C, 2x SPI, 1x UART, 8x GPIO
DLAP-211-Orin Nano 8GB	Powered by NVIDIA® Jetson Orin™ Nano 8GB
DLAP-211-Orin NanoS 8GB	Powered by NVIDIA® Jetson Orin™ Nano 8GB, 2x I <sup>2</sup> C, 2x SPI, 1x UART, 8x GPIO
DLAP-211-JNX	Powered by NVIDIA® Jetson Xavier™ NX
DLAP-211-JNX 16GB	Powered by NVIDIA® Jetson Xavier™ NX 16GB
DLAP-211-JNXS	Powered by NVIDIA® Jetson Xavier™ NX, 2x I <sup>2</sup> C, 2x SPI, 1x UART, 8x GPIO
DLAP-211-JT2	Powered by NVIDIA® Jetson™ TX2 NX
DLAP-211-JT2S	Powered by NVIDIA® Jetson™ TX2 NX, 2x I <sup>2</sup> C, 2x SPI, 1x UART, 8x GPIO
DLAP-211-Nano	Powered by NVIDIA® Jetson Nano™
DLAP-211-NanoS	Powered by NVIDIA® Jetson Nano™, 2x I <sup>2</sup> C, 2x SPI, 1x UART, 8x GPIO
DLAP-211-JNX-CB	DLAP-211 carrier board with Jetson Xavier™ NX

## Optional Accessories

EWK-M2-AC9260-ET	Wifi module, INTEL AC9260 IND. WIFI w/ mPCIe converter
EG25-G 4G/LTE Kit	4G/LTE module, 2pcs x IPEX to SMA Cable, 2pcs x 4G LTE Antenna, .
ASDED4EDE-128GT0	M.2 SSD, Temp.-25°C to +85°C M.2 2242 PCIe Gen3x4
ASDED4EDE-256GT0	M.2 SSD, Temp.-25°C to +85°C M.2 2242 PCIe Gen3x4
ASDED4EDE-512GT0	M.2 SSD, Temp.-25°C to +85°C M.2 2242 PCIe Gen3x4
DLAP-2xx series DIN RAIL set	DLAP-2xx series DIN RAIL set

## Specifications

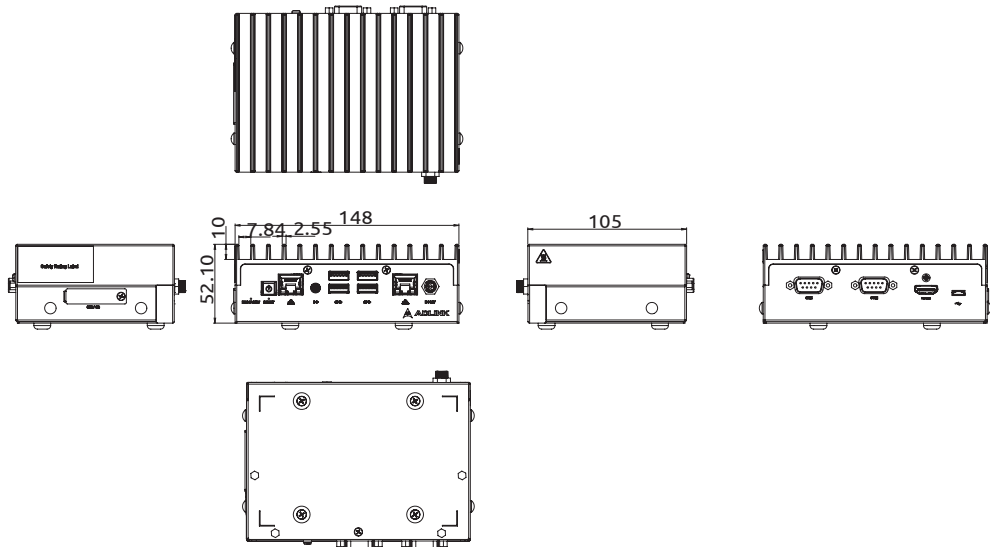
Model	DLAP-211-Orin NX 8GB	DLAP-211-Orin NXS 8GB	DLAP-211-Orin NX 16GB	DLAP-211-Orin NXS 16GB	DLAP-211-Orin Nano 4GB	DLAP-211-Orin NanoS 4GB	DLAP-211-Orin Nano 8GB	DLAP-211-Orin NanoS 8GB
AI Performance	70 TOPS		100 TOPS		20 TOPS		40 TOPS	
<b>System</b>								
GPU	1024-core NVIDIA Ampere GPU with 32 Tensor Cores				512-core NVIDIA Ampere architecture GPU with 16 Tensor Cores		1024-core NVIDIA Ampere architecture GPU with 32 Tensor Cores	
CPU	6-core Arm® Cortex®-A78AE v8.2 64-bit CPU 1.5MB L2 + 4MB L3		8-core Arm® Cortex®-A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3		6-core Arm® Cortex®-A78AE v8.2 64-bit CPU 1.5MB L2 + 4MB L3			
RAM	8G		16G		4G		8 G	
Storage	128GB M.2 2242 PCIe Gen3x4							
OS	Linux®							
<b>Front Panel I/O Ports</b>								
Button	1x power, 1x reset, 1x recovery							
HDMI	1x lockable							
USB	4x USB 3.0 Type-A							
Ethernet	2x 10/100/1000Mbps Ethernet							
<b>Back Panel I/O Ports</b>								
USB	1x USB 2.0 OTG							
Serial Port	1x COM RS-232/RS-422/RS-485							
CAN Bus	1x 2.0b							
<b>Extension Slots</b>								
Mini PCIe	1x PCIe mini card slot							
M.2	1x M.2 B key 2242 socket							
<b>Power Supply</b>								
Expansion I/O* (Only available for S models)	2x I2-C, 2x SPI, 1x UART, 8x GPIO, Relay through 1x 37pin D sub connector							
DC Input	12V							
AC Input	60W , OP Temp Max: 45°C		84W ,OP Temp Max: 55°C		60W , OP Temp Max: 45°C			
<b>Mechanical</b>								
Dimensions (W x D x H)	148mm x 120mm x 52mm (DLAP-211-Orin NX/Orin Nano) 148mm x 120mm x 64mm (DLAP-211-Orin NXS/Orin NanoS)							
Weight	Gross 1.725 KG / Net 1.5 KG							
Mounting	Wall mount, VESA DIN rail (optional)							
SMA Antenna Connector	4							
<b>Environmental</b>								
Operating Temperature	Standard -20°C to 70°C (system level), -20°C to 85°C (board level)							
Operating Humidity	~95% @40°C (non-condensing, optional with fanless solution) without adapter							
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>F/W Support</b>								
WDT	WDT supported							

## Specifications

Model	DLAP-211-JNX	DLAP-211-JNXS	DLAP-211-JT2	DLAP-211-JT2S	DLAP-211-Nano	DLAP-211-NanoS
AI Performance	21 TOPS		1.33 TFLOPS		472 GFLOPS	
<b>System</b>						
GPU	384-core NVIDIA Volta™ architecture GPU with 48 Tensor Cores		256-core NVIDIA Pascal™ architecture GPU		128-core NVIDIA Maxwell™ architecture GPU	
CPU	6-core NVIDIA Carmel ARM® v8.2 64-bit CPU 6MB L2 + 4MB L3		Dual-core NVIDIA Denver™ 2 64-bit CPU and quad-core Arm® Cortex®-A57 MPCore processor		Quad-core ARM® Cortex®-A57 MPCore processor	
RAM	8GB/16GB	8GB	4GB			
Storage	16 GB eMMC 5.1					
OS	Linux					
<b>Front Panel I/O Ports</b>						
Button	1x power, 1x reset, 1x recovery					
HDMI	1x lockable					
USB	4x USB 3.0 Type-A					
Ethernet	2x 10/100/1000Mbps Ethernet					
Audio	Mic-in, line-out					
Expansion I/O	N/A	2x I2-C, 2x SPI, 1x UART, 8x GPIO, Relay through 1x 37pin D sub connector	N/A	2x I2-C, 2x SPI, 1x UART, 8x GPIO, Relay through 1x 37pin D sub connector	N/A	2x I2-C, 2x SPI, 1x UART, 8x GPIO, Relay through 1x 37pin D sub connector
<b>Back Panel I/O Ports</b>						
USB	1x USB 2.0 OTG					
Serial Port	1x COM RS-232/RS-422/RS-485					
CAN Bus	1x 2.0b				N/A	
<b>Extension Slots</b>						
Mini PCIe	1x PCIe mini card slot					
M.2	1x M.2 B key 2242 socket					
SD Card Slot	1x SD card slot					
<b>Power Supply</b>						
DC Input	12V					
AC Input	60W, OP Temp Max: 55°C					
<b>Mechanical</b>						
Dimensions (W x D x H)	148mm x 120mm x 52mm (LAP-211-JNX/DLAP-211-JT2/DLAP-211-Nano) 148mm x 120mm x 64mm (DLAP-211-JNXS/DLAP-211-JT2S/DLAP-211-NanoS)					
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SMA Antenna Connector	4					
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<b>F/W Support</b>						
WDT	WDT supported					

## Mechanical Overview

DLAP-211-JNX/JT2/Nano  
DLAP-211-Orin NX/Nano



DLAP-211-JNXS/JT2S/NanoS  
DLAP-211-Orin NXS/NanoS

