

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

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



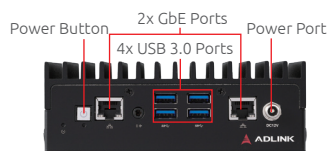
Features

- Deep learning acceleration with NVIDIA® Jetson Xavier™ NX /Jetson™ TX2 NX/ Jetson Nano™ SOM/ Jetson Orin™ NX/Jetson Orin™ Nano
- Linux® Ubuntu operating system
- High performance yet energy efficient
- Wide operating temperature range
- Compact, durable and fanless design for 24/7 operation
- Wide variety of industrial I/O ports and visual infereencing capabilities
- Available with AWS IoT Greengrass service and Allxon remote device management

Software Support

Linux Ubuntu 18.04/20.04 LTS

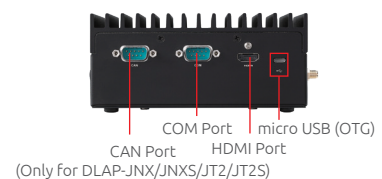
DLAP-211-JNX/JT2/Nano/Orin NX/Orin Nano



DLAP-211-JNXS/JT2S/NanoS



DLAP-211 Series (backside)



Ordering Information

DLAP-211-Orin NX 8GB	Powered by NVIDIA® Jetson Orin™ NX 8GB
DLAP-211-Orin NX 16GB	Powered by NVIDIA® Jetson Orin™ NX 16GB
DLAP-211-Orin Nano 4GB	Powered by NVIDIA® Jetson Orin™ Nano 4GB
DLAP-211-Orin Nano 8GB	Powered by NVIDIA® Jetson Orin™ Nano 8GB
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 ² 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 ² 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 ² 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	INTEL AC9260 IND. WIFI w/ mPCIe converter
AMPAK AP12356 WIFI/BT KIT	AMPAK AP12356 WIFI/BT KIT 2x2 Wi-Fi + Bluetooth4.1 Module with PCI-e Half-Mini Card
EG25-G 4G/LTE Kit	2pcs x IPEX to SMA Cable, 2pcs x 4G LTE Antenna, .
ASDED4EDE-128GT0	Temp.-25°C to +85°C M.2 2242 PCIe Gen3x4
ASDED4EDE-256GT0	Temp.-25°C to +85°C M.2 2242 PCIe Gen3x4
ASDED4EDE-512GT0	Temp.-25°C to +85°C M.2 2242 PCIe Gen3x4
DLAP-2xx series DIN RAIL set	DLAP-2xx series DIN RAIL set

Specifications

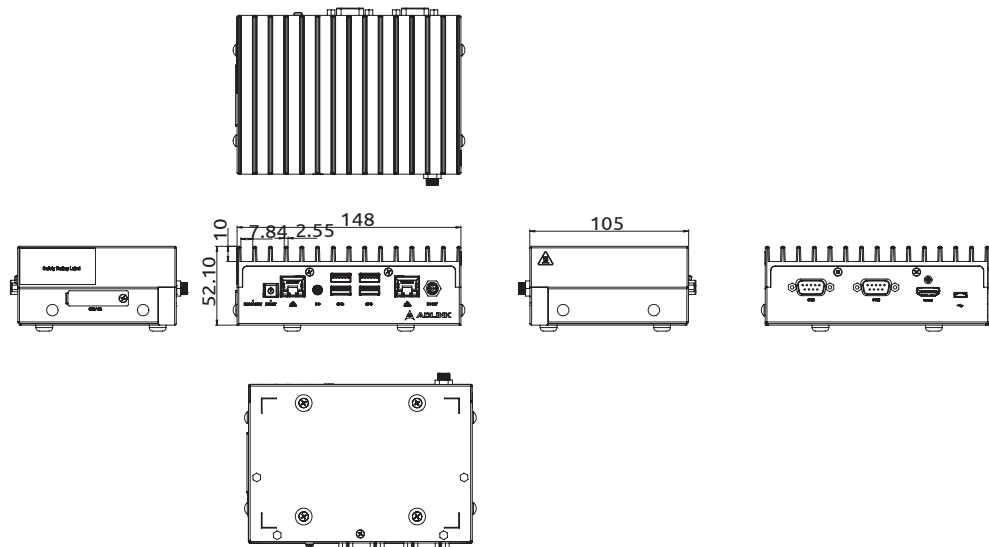
Model	DLAP-211-JNX	DLAP-211-JNXS	DLAP-211-JT2	DLAP-211-JT2S	DLAP-211-Nano	DLAP-211-NanoS
AI Performance	21 TOPS		1.33 TFLOPS		472 GFLOPS	
System						
GPU	384-core NVIDIA Volta™ architecture GPU with 48 Tensor Cores		256-core NVIDIA Pascal™ architecture GPU		128-core NVIDIA Maxwell™ architecture GPU	
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® Ubuntu					
Front Panel I/O Ports						
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
Back Panel I/O Ports						
USB	1x USB 2.0 OTG					
Serial Port	1x COM RS-232/RS-422/RS-485					
CAN Bus	1x 2.0b				N/A	
Extension Slots						
Mini PCIe	1x PCIe mini card slot					
M.2	1x M.2 B key 2242 socket					
SD Card Slot	1x SD card slot					
Power Supply						
DC Input	12V					
AC Input	60W power adapter					
Mechanical						
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)					
Weight	Gross 1.725 KG / Net 1.5 KG					
Mounting	Wall mount, VESA DIN rail (optional)					
SMA Antenna Connector	4					
Environmental						
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)					
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					
F/W Support						
WDT	WDT supported					

Specifications

Model	DLAP-211-Orin NX 8GB	DLAP-211-Orin NX 16GB	DLAP-211-Orin Nano 4GB	DLAP-211-Orin Nano 8GB
AI Performance	70 TOPS	100 TOPS	20 TOPS	40 TOPS
System				
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® Ubuntu			
Front Panel I/O Ports				
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			
Back Panel I/O Ports				
USB	1x USB 2.0 OTG			
Serial Port	1x COM RS-232/RS-422/RS-485			
CAN Bus	1x 2.0b			
Extension Slots				
Mini PCIe	1x PCIe mini card slot			
M.2	1x M.2 B key 2242 socket			
Power Supply				
DC Input	12V			
AC Input	60W power adapter			
Mechanical				
Dimensions (W x D x H)	148mm x 120mm x 52mm			
Weight	Gross 1.725 KG / Net 1.5 KG			
Mounting	Wall mount, VESA DIN rail (optional)			
SMA Antenna Connector	4			
Environmental				
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)			
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			
F/W Support				
WDT	WDT supported			

Mechanical Overview

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



DLAP-211-JNXS/JT2S/NanoS

