

# DLAP-211 Series

Ultra-Compact, Fanless, Edge AI Platform for Diverse AI Applications

## Features

- Embedded with NVIDIA® Jetson Orin NX/Nano™, Xavier NX™, TX2 NX™, or Nano™ module, delivering up to 100 TOPS
- Extremely compact at 148mm x 120mm x 52mm with a fanless design
- Extended operating temperature range from -20°C to 70°C
- Versatile I/O ports with optional FM board extension
- Ideal for diverse AI applications like Smart City, Retail, Manufacturing, and more
- Development kit (without chassis SKU) is available for purchase



## Ordering Information

| PN            | Model Name              | NVIDIA Module | NVIDIA Module Memory | NVIDIA Module eMMC          | NVMe                         | Expand IO |
|---------------|-------------------------|---------------|----------------------|-----------------------------|------------------------------|-----------|
| 93-45103-0420 | DLAP-211-Orin NX 16GB   | Orin NX       | 16GB                 | N/A                         | 128GB (pre-installed system) | N/A       |
| 93-45103-0320 | DLAP-211-Orin NX 8GB    | Orin NX       | 8GB                  | N/A                         | 128GB (pre-installed system) | N/A       |
| 93-45103-1310 | DLAP-211-Orin Nano 8GB  | Orin Nano     | 8GB                  | N/A                         | 128GB (pre-installed system) | N/A       |
| 93-45103-1210 | DLAP-211-Orin Nano 4GB  | Orin Nano     | 4GB                  | N/A                         | 128GB (pre-installed system) | N/A       |
| 93-45103-0230 | DLAP-211-JNX 16GB       | Xavier NX     | 16GB                 | 16GB (pre-installed system) | N/A                          | N/A       |
| 93-45103-0050 | DLAP-211-JNX            | Xavier NX     | 8GB                  | 16GB (pre-installed system) | N/A                          | N/A       |
| 93-45103-6010 | DLAP-211-JT2            | TX2NX         | 4GB                  | 16GB (pre-installed system) | N/A                          | N/A       |
| 93-45103-1020 | DLAP-211-Nano           | Nano          | 4GB                  | 16GB (pre-installed system) | N/A                          | N/A       |
| 93-45103-4220 | DLAP-211-Orin NXS 16GB  | Orin NX       | 16GB                 | N/A                         | 128GB (pre-installed system) | YES       |
| 93-45103-4410 | DLAP-211-Orin NXS 8GB   | Orin NX       | 8GB                  | N/A                         | 128GB (pre-installed system) | YES       |
| 93-45103-5210 | DLAP-211-Orin NanoS 8GB | Orin Nano     | 8GB                  | N/A                         | 128GB (pre-installed system) | YES       |
| 93-45103-4020 | DLAP-211-JNXS           | Xavier NX     | 8GB                  | 16GB (pre-installed system) | N/A                          | YES       |
| 93-45103-5020 | DLAP-211-NanoS          | Nano          | 4GB                  | 16GB (pre-installed system) | N/A                          | YES       |

## Packing list

| PN               | Description                              | QTY | Note                      |
|------------------|------------------------------------------|-----|---------------------------|
| 93-45103-XXXX    | DLAP-211                                 | 1   | N/A                       |
| 31-62157-1010-A0 | 84W, Adapter, 12V/7A, DC Jack Ø2.5       | 1   | Only for Orin NX 16GB     |
| 31-62156-1010-A0 | 60W, Adapter, 12V/5A, DC Jack Ø2.5       | 1   | Only for non-Orin NX 16GB |
| 33-01200-0050    | Screw M2.5,P-head,L5                     | 3   | N/A                       |
| 34-34334-0000-A0 | VESA bracket                             | 1   | N/A                       |
| 33-04302-0050    | Screw M4,I-head,L5.0                     | 4   | N/A                       |
| 33-04603-0080    | Screw M4,HW-head,L8.0                    | 4   | N/A                       |
| 47-90004-0010    | Technical service card                   | 1   | N/A                       |
| 50-40375-9000    | Template A of both CN & TW RoHS Declarat | 1   | N/A                       |

## Optional Accessories

| PN            | Description                             | Note                     |
|---------------|-----------------------------------------|--------------------------|
| 91-49074-000E | Wifi Kit, M2-R8852BE w/ mPCIe converter | Only for Orin series     |
| 91-49074-100E | Wifi Kit, M2-AC9260 w/ mPCIe converter  | N/A                      |
| 91-95301-0010 | DIN RAIL, DLAP-211 SERIES DIN RAIL set  | N/A                      |
| 91-95277-0010 | 4G/LET kit, EG25-G 4G/LTE Kit           | Only for non-Orin series |
| 95-36400-4E10 | M2ASDED4EDE-128GT0-N                    | NVMe                     |
| 95-36400-5E10 | ASDED4EDE-256GT0-N                      | NVMe                     |
| 95-36400-6E10 | ASDED4EDE-512GT0-N                      | NVMe                     |
| 95-34400-7400 | ASDSM4SHE-1TBT0                         | SATA                     |

## Specifications

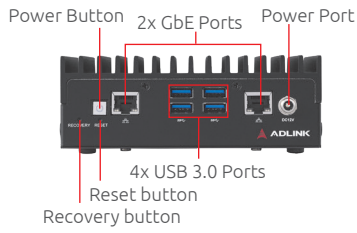
| Model                  | DLAP-211-Orin NX 8GB                                                                                                                                                                                                                                                       | DLAP-211-Orin 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 I/O Interfaces   |                                                                                                                                                                                                                                                                            |                                                           |                                                              |                                                               |
| Button                 | 1x power, 1x reset, 1x recovery                                                                                                                                                                                                                                            |                                                           |                                                              |                                                               |
| HDMI                   | 1x lockable                                                                                                                                                                                                                                                                |                                                           |                                                              |                                                               |
| USB                    | 4x USB 3.0 Type-A                                                                                                                                                                                                                                                          |                                                           |                                                              |                                                               |
| Ethernet               | 2x 10/100/1000Mbps Ethernet                                                                                                                                                                                                                                                |                                                           |                                                              |                                                               |
| For S models Only      | 2x I2-C, 2x SPI, 1x UART, 8x GPIO, 1x Relay through 1x 37pin D sub connector                                                                                                                                                                                               |                                                           |                                                              |                                                               |
| Back I/O Interfaces    |                                                                                                                                                                                                                                                                            |                                                           |                                                              |                                                               |
| 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 , OP Temp Max: 45°C                                                                                                                                                                                                                                                    | 84W ,OP Temp Max: 55°C                                    | 60W , OP Temp Max: 45°C                                      |                                                               |
| Mechanical             |                                                                                                                                                                                                                                                                            |                                                           |                                                              |                                                               |
| Dimensions (W x D x H) | 148mm x 120mm x 52mm (DLAP-211-Orin NX/Orin Nano)<br>148mm x 120mm x 64mm (DLAP-211-Orin NXS/Orin NanoS)                                                                                                                                                                   |                                                           |                                                              |                                                               |
| Weight                 | Gross 1.7kg/ Net 1.01kg (DLAP-211-Orin NX/Orin Nano)<br>Gross 1.85kg/ Net 1.16kg (DLAP-211-Orin NXS/Orin NanoS)                                                                                                                                                            |                                                           |                                                              |                                                               |
| Mounting               | VESA, DIN rail (optional)                                                                                                                                                                                                                                                  |                                                           |                                                              |                                                               |
| SMA Antenna Connector  | 4                                                                                                                                                                                                                                                                          |                                                           |                                                              |                                                               |
| Environmental          |                                                                                                                                                                                                                                                                            |                                                           |                                                              |                                                               |
| Operating Temperature  | -20°C to 70°C with 0.6m/s airflow, at 10W<br>-20°C to 60°C with 0.6m/s airflow, at 15W<br>-20°C to 50°C with 0.6m/s airflow, at 25W<br>-20°C to 40°C with 0.6m/s airflow, at MAXN, Need to use industrial grade parts (which Tamb spec is 85°C) for mPCIe interface parts. |                                                           |                                                              |                                                               |
| 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                                                                                                                                                                                                             |                                                           |                                                              |                                                               |
| F/W Support            |                                                                                                                                                                                                                                                                            |                                                           |                                                              |                                                               |
| WDT                    | WDT supported                                                                                                                                                                                                                                                              |                                                           |                                                              |                                                               |

## Specifications

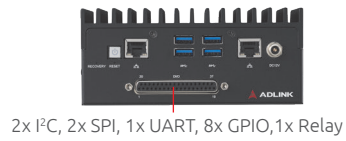
| Model                  | DLAP-211-JNX                                                                                                                                                                     | DLAP-211-JT2                                                                             | DLAP-211-Nano                              |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------|
| 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<br>64-bit CPU<br>6MB L2 + 4MB L3                                                                                                                  | Dual-core NVIDIA Denver™ 2<br>64-bit CPU and quad-core Arm® Cortex®-A57 MPCore processor | Quad-core ARM® Cortex®-A57 MPCore processo |
| RAM                    | 8GB/16GB                                                                                                                                                                         | 4GB                                                                                      |                                            |
| Storage                | 16 GB eMMC 5.1                                                                                                                                                                   |                                                                                          |                                            |
| OS                     | Linux® Ubuntu                                                                                                                                                                    |                                                                                          |                                            |
| Front I/O Interfaces   |                                                                                                                                                                                  |                                                                                          |                                            |
| Button                 | 1x power, 1x reset, 1x recovery                                                                                                                                                  |                                                                                          |                                            |
| HDMI                   | 1x lockable                                                                                                                                                                      |                                                                                          |                                            |
| USB                    | 4x USB 3.0 Type-A                                                                                                                                                                |                                                                                          |                                            |
| Ethernet               | 2x 10/100/1000Mbps Ethernet                                                                                                                                                      |                                                                                          |                                            |
| For S models Only      | 2x I2-C, 2x SPI,<br>1x UART, 8x GPIO, 1x 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, OP Temp Max: 55°C                                                                                                                                                           |                                                                                          |                                            |
| Mechanical             |                                                                                                                                                                                  |                                                                                          |                                            |
| Dimensions (W x D x H) | 148mm x 120mm x 52mm<br>148mm x 120mm x 64mm (S models)                                                                                                                          |                                                                                          |                                            |
| Weight                 | Gross 1.7kg/ Net 1.01kg<br>Gross 1.85kg/ Net 1.16kg (S models)                                                                                                                   |                                                                                          |                                            |
| Mounting               | VESA, DIN rail (optional)                                                                                                                                                        |                                                                                          |                                            |
| SMA Antenna Connector  | 4                                                                                                                                                                                |                                                                                          |                                            |
| Environmental          |                                                                                                                                                                                  |                                                                                          |                                            |
| Operating Temperature  | -20°C to 70C with 0.6m/s airflow, at 10W<br>-20°C to 60°C with 0.6m/s airflow, at 15W<br>Need to use industrial grade parts (which Tamb spec is 85°C) for mPCIe interface parts. |                                                                                          |                                            |
| Operating Humidity     | ~95% @40°C (non-condensing, optional with fanless solution)<br>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                                                                                                                   |                                                                                          |                                            |
| F/W Support            |                                                                                                                                                                                  |                                                                                          |                                            |
| WDT                    | WDT supported                                                                                                                                                                    |                                                                                          |                                            |

## I/O View

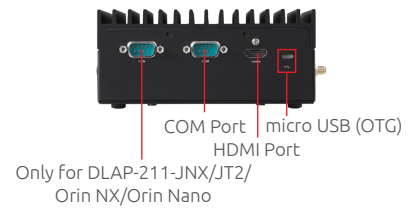
DLAP-211-JNX/JT2/Nano/Orin NX/Orin Nano



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

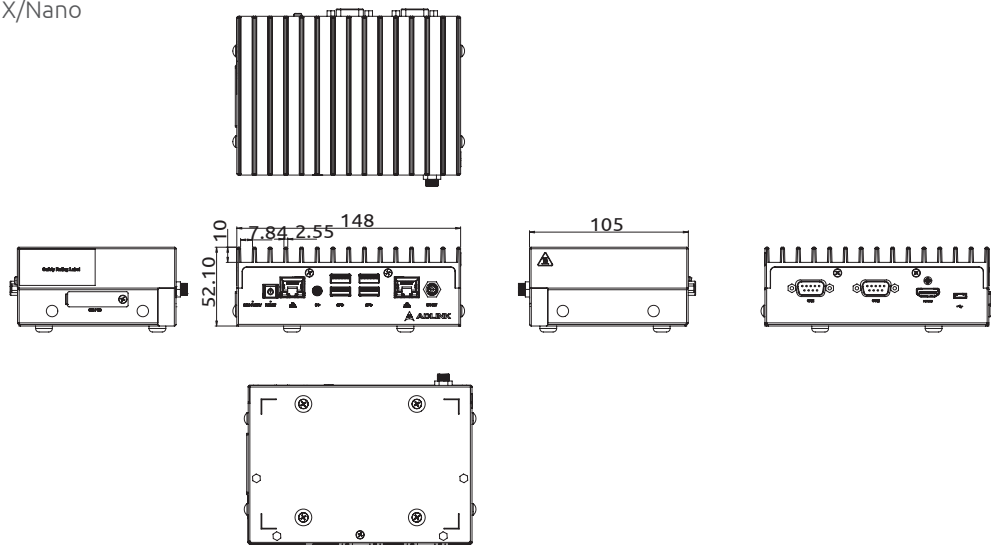


DLAP-211 Series (backside)

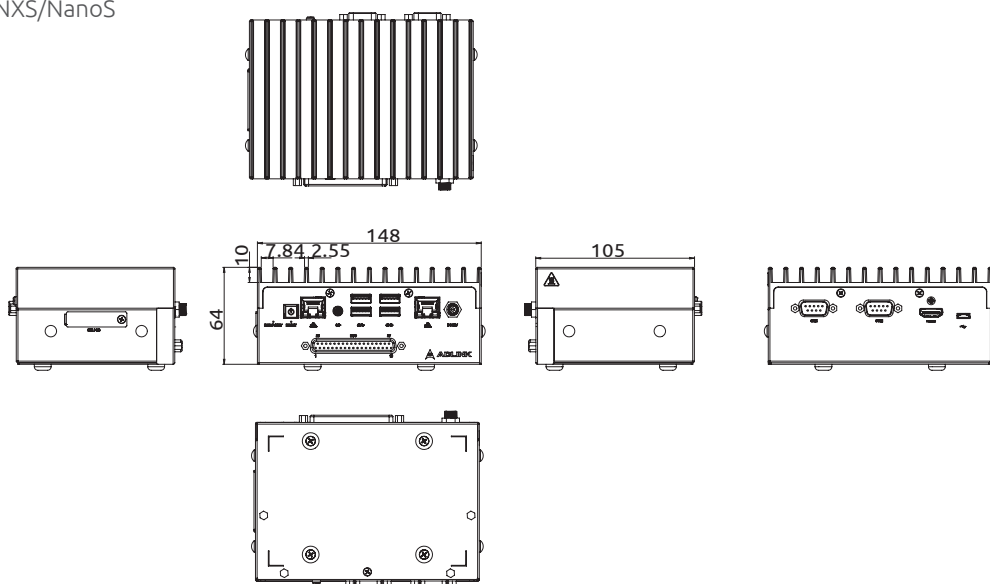


## Product Dimensions and Illustration

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



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



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