D131LOX/D131LON Engineering Kit

[Preliminary]

Equips NVIDIA® Jetson Orin NX/ Orin Nano module

Overview

AVerMedia’s D131LOX/D131LON Engineering Kit equips powerful NVIDIA® Jetson Orin NX/ Orin Nano modules.

Update BSP via NVIDIA Website. Enjoy the newest BSP as NVIDIA launch.

Suggested Vertical Markets

- High performance compute
- AI development

Enterprise-Leading Features

- 1 x 2 Lane MIPI CSI-2 Camera input
- 1 x M.2. E key 2230 for Wi-Fi (AC9260)
- 1 x M.2. M key 2280 for SSD (not included)
- 1 x GbE RJ-45 (Option PoE), 40-pin expansion header
- 4 x USB 3.2 Gen 1 (5G) Type A
- 1 x 4Kp30 HDMI output for Orin Nano
- Operating temperature: 0°C ~ 65°C
- Dimension: 113mm(W) x 105mm(L) x 10.8mm(H) / Weight: 220g
- Support 24/7 secure remote monitoring, control, and OTA deployment empowered by Allxon

Interface

Power button
Recovery button
USB 2.0 Micro-B for recovery
M.2. E key 2230
40-pin Header

DC IN ATX
4-pin 9-24V

1xHDMI
4 x USB 3.2 Gen 1 (5G) Type A
1xGbE RJ45
DC IN

The product images are for illustration purposes only and may not be an exact representation of the product.
# D131LOX/D131LON Engineering Kit

**NVIDIA® Jetson Orin NX/Orin Nano module**

## Specifications

<table>
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<tr>
<th>Model</th>
<th>D131LOX/D131LON</th>
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<tr>
<td><strong>NVIDIA Jetson SoM</strong></td>
<td>Jetson Orin NX 8G / Orin Nano 8G</td>
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<tr>
<td><strong>BSP</strong></td>
<td>Applied to NVIDIA BSP directly</td>
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</table>
| **Networking**      | 1x GbE RJ-45 (PoE option)  
1x M.2. key E 2230 for Wi-Fi (AC9260) |
| **Display Output**  | 1x HDMI 3840 x 2160 at 30Hz for Orin Nano |
| **Temperature**     | Operating temperature 0°C~65°C  
Storage temperature -40°C ~ 85°C  
Relative humidity 40°C @ 95%, Non-Condensing |
| **MIPI Camera Inputs** | 1x 2 lane MIPI CSI-2, 15 pin FPC 1mm Pitch Connector |
| **USB**             | 1x USB 2.0 Micro-B for recovery  
4x USB 3.2 Gen 1 (5G) Type A |
| **Storage**         | 1x M.2. key M 2280 for SSD |
| **Expansion Header** | 40-pin: 1x UART, 2x SPI, 2x 12C, 1x I2S, 6x GPIOs  
1x OOB supported by Allxon |
| **Power requirement** | Voltage: DC 9~24V  
Current: DC IN Jack on board: 7A~2.6A  
ATX 4pin: 7A~2.6A |
| **Thermal Solution** | Fan |
| **Buttons**         | Power and Recovery |
| **Dimensions**      | 113mm(W) x 105 mm(L) x 10.8 mm(H)  
Weight: 220g |
| **Certifications**  | CE, FCC, KC, UKCA |
| **Package**         | 1 x Carrier Board  
1 x NVIDIA® Jetson Orin Nano module + Fan |
| **Optional**        | • WIFI KIT  
• PSE Board  
• APPRO IMX179 Camera module  
• 256G SSD  
• 12V Power Adapter  
• Power Cord |

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