

# 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.

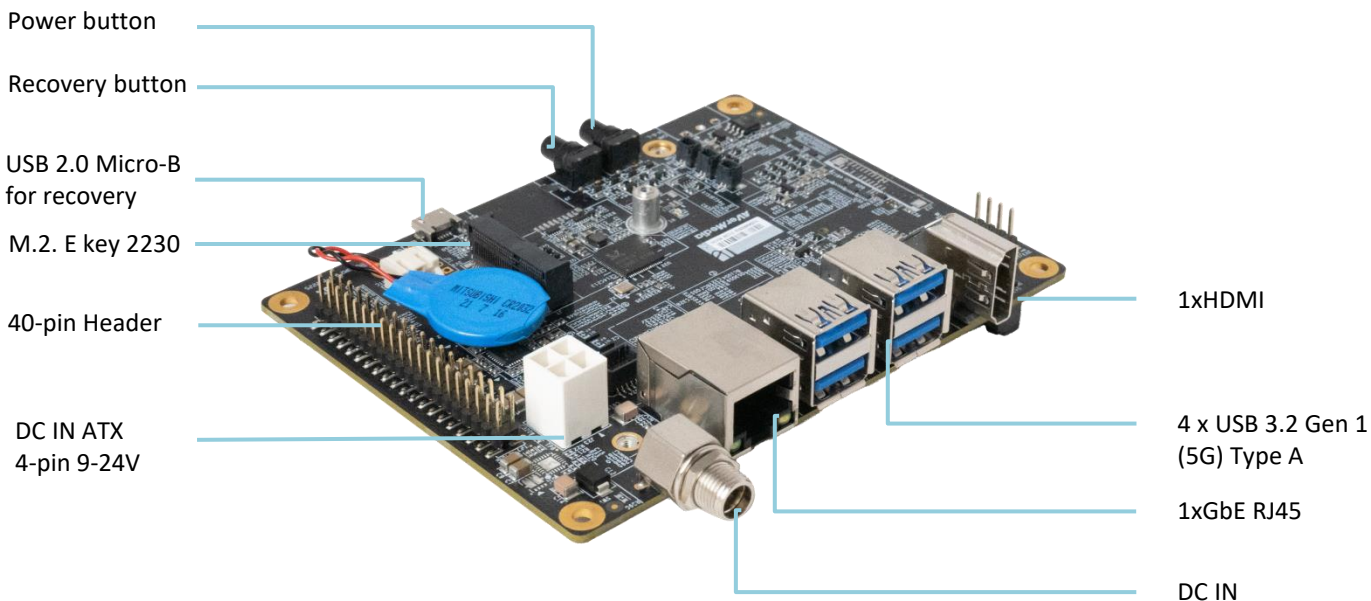
### Suggested Vertical Markets

- 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



# D131LOX/D131LON Engineering Kit

## NVIDIA® Jetson Orin NX/ Orin Nano module

### Specifications

Model	D131LOX/D131LON	
NVIDIA Jetson SoM	Jetson Orin NX 8G / Orin Nano 8G	
BSP	Applied to NVIDIA BSP directly	
Networking	1x GbE RJ-45 (PoE option) 1xM.2. key E 2230 for Wi-Fi (AC9260)	
Display Output	1x HDMI 3840 x 2160 at 30Hzfor 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 4 x 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 I2C, 1x I2S, 6x GPIOs 1xOOB 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	<ul style="list-style-type: none"> <li>• WIFI KIT</li> <li>• PSE Board</li> <li>• APPRO IMX179 Camera module</li> <li>• 256G SSD</li> <li>• 12V Power Adapter</li> <li>• Power Cord</li> </ul>	

