Datasheet

D131LOX/D131LON Engineering Kit

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.

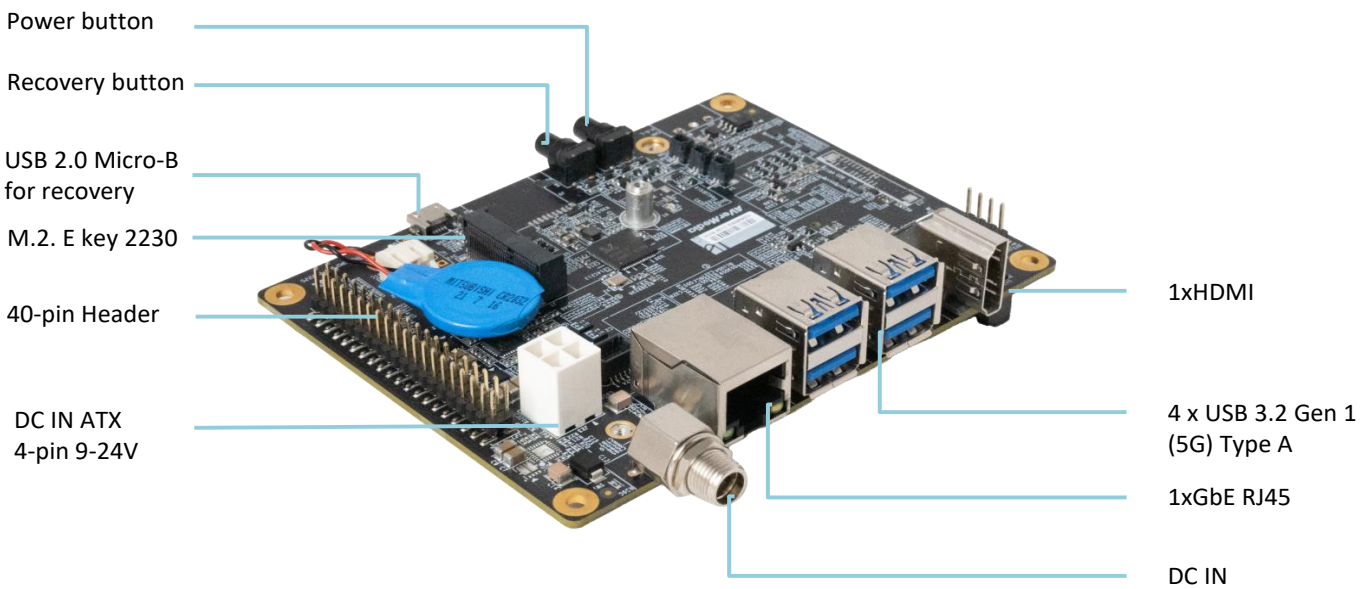
Suggested Vertical Markets

- 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 Type A (Total Bandwidth: 5Gbps)
- 1 x 4Kp30 HDMI output for Orin Nano
- Operating temperature: 0˚C ~ 65˚C
- Dimension: 113mm(W) x 101.4mm(L) x 57.8mm(H) / Weight: 220g
- Support 24/7 secure remote monitoring, control, and OTA deployment empowered by Allxon

Interface



The product images are for illustration purposes only and may not be an exact representation of the product.

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D131LOX/D131LON Engineering Kit

NVIDIA® Jetson Orin NX/ Orin Nano module

Specifications

Model	D131LOX/D131LON	
NVIDIA Jetson SoM	Jetson Orin NX 16G or 8G / Orin Nano 8G or 4G	
BSP	Applied to NVIDIA BSP directly*	
Networking	1x GbE RJ-45 (PoE option) 1xM.2. key E 2230 for Wi-Fi (AC9260)	
Display Output	1 x HDMI output3840 x 2160 at 60Hz for Orin NX, 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 Type A (Total Bandwidth: 5Gbps)	
Storage	1x M.2. key M 2280 for SSD	
Expansion Header	40-pin: 1x UART, 2x SPI, 2x 12C, 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	

*Before flashing the NVIDIA BSP, please refer to page 28 of our user manual for pre-settings.

**All specifications are subject to change without prior notice.

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NVIDIA® Jetson Orin NX/ Orin Nano module

Specifications

Dimensions	113mm(W) x 101.4 mm(L) x 57.8 mm(H) Weight: 220g
Certifications	CE, FCC, KC, UKCA
Package	1 x Carrier Board 1 x NVIDIA® Jetson Orin NX / Orin Nano module + Fan 4 x Supporters 4 x Screws
Optional	• WIFI KIT • PSE Board • APPRO IMX179 Camera module • 256G SSD • 12V Power Adapter • Power Cord

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RoHS 2 COMPLIANT

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Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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