

JNX40S/JNX41S



with super mode

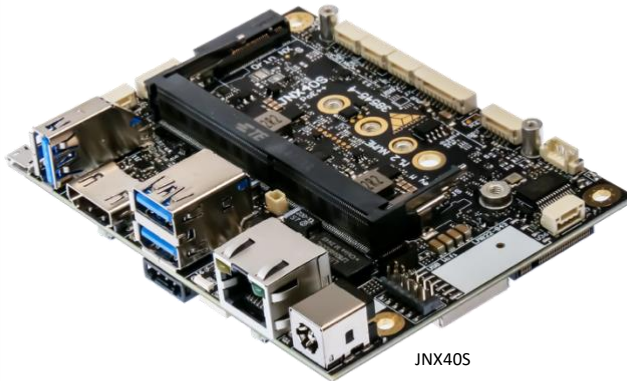
Overview

The JNX40S and the JNX41S models are designed to support the super mode of the Orin Nano/NX. This enhanced mode is available for all Orin Nano/NX modules with the implementation of the JetPack 6.2

The primary distinction between the JNX40S and JNX41S lies in their CSI-2 connectors. The JNX41S features 2x (4 lanes), opening up the space for the use of additional GPIOs (2x native or 7x via GPIO extender)

Features

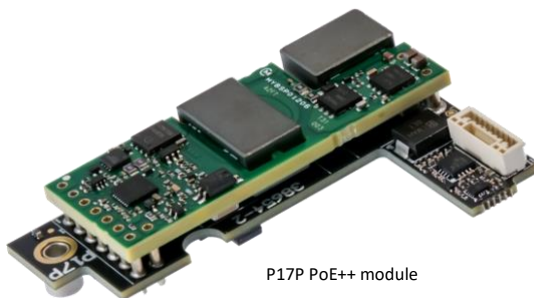
- Easy extension and adaptability with the use of our many expansion modules and cards
- Compatibility with many of our accessory modules
- Designed and manufactured in Germany



JNX40S



M15E 5GigaBit Ethernet



P17P PoE++ module

Technical Specification

Feature	JNX40S	JNX41S
Compatible modules	Orin Nano/NX	
Super mode support	✓ (with Jetpack 6.2)	
M.2 key B	USB 2.0 for (LTE)	
M.2 key E	PCIe x1 + USB 2.0 (Wifi)	
M.2 key M	2280 SSD	
SIM	2x dual nano SIM	
HDMI	2.0 (up to 4k60)	
USB	3x 3.3	
PCIe	x1	
Fan connector	5V, PWM	
UART	3.3V	
I2C / I2S	✓	
SPI	✓	
MIPI CSI-2	4x (2 lanes)	2x (4 lanes)
CAN	✓	
Battery holder	RTC lithium battery (CR2032)	
System management	MCU	
PoE (with the use of our PX modules)	PoE++ (802.3bt Type 4 72W)	
Ethernet	5GbE or 10 GbE (with M.2 Key E)	
Power requirements	19V	
Size	80mm x 104mm	
Weight	tbd	tbd
Model number	38545-4	38698
SKU	70716	70846

Note: all Orin Nano/NX modules do support the super mode with JetPack 6.2 and the new JNX4xS series.

Carrier Board Variations

SKU	Part
70716	JNX40S
70846	JNX41S

Cooling solutions

SKU	Part
70812	FAN integrated heatsink
70812-C	Heatsink industrial
70812-P	Passive heatsink
70696	Leaf spring kit
70606	Heatspreader
70798-OK	Cooling kit
70810-OK	Cooling kit industrial
70810-CP	Super mode copper heatsink kit*

*recommended when using the super mode

PoE modules

SKU	Part
70893-S	P12S isolated PoE+ module (25.5W)
70894-S	P14S PoE+ PSE power module (30W)
70428-S	P17S isolated PoE++ module (60W)

Ethernet cards

SKU	Part
70828	M15E 5G Ethernet (M.2 Key E)
70827	M20E 10G Ethernet (M.2 Key E)



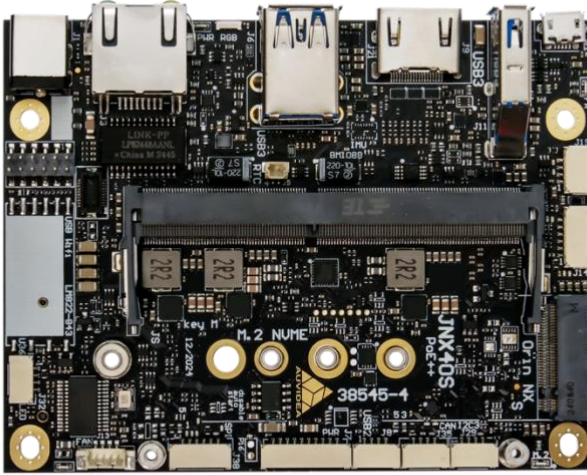
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Jetson Orin Nano/NX carrier board

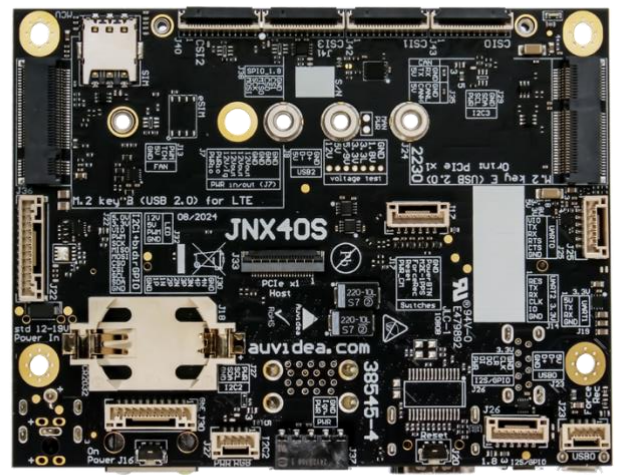
JNX40S/JNX41S

JNX40 Variations

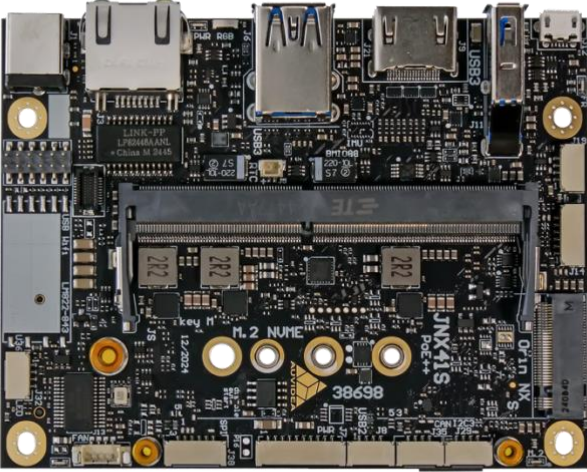
JNX40S top



JNX40S bot



JNX41S top



JNX41S bot

