JNX30 system

JNX30 System

For NVIDIA Jetson Nano, TX2 NX and Xavier NX

JNX30 embedded systems for AI

These systems let you dive into AI with ease. They allow you to explore AI applications like people detection, face masking and more. The full suite of NVIDIA SDKs may be installed. At your choice these systems can be equipped with the entire family of NVIDIA compute modules in the SO-DIMM form factor.

Features

- Passively cooled design:
  low maintenance as no moving parts
- 128 GB M.2 SSD
- requires Linux host PC and Internet connection to initially flash the system and install the software
- a large variety of addon modules available from Auvidea
- industrial strength design

Description	JNX30 System
power	6V - 19V (5.5/2.5mm barrel connector)
Xavier NX power	5V 8A power supply
DP	no (optional with some JNX30 versions)
HDMI	yes
fan connector	yes (internal – but not used)
M.2 NVME Key M	yes
M.2 Key E	only with external module (using internal USB)
USB 3	1x USB 3.0/3.1 (native - full performance)
Micro USB	1x micro USB (device mode only)
Auto Flashing	yes (plug in host cable and flash)
USB 2	USB 2.0 (JST-GH) (internal)
Ethernet	Gigabit RJ45 (2 LEDs)
PoE option	no (optional on other models)
MIPI CSI-2	2x CSI-2 (4 lanes) plus camera LED (hardware sync available) (internal)
UART	console UART and user UART (internal)
crypto chip	for software copy protection and licensing
size	190x154x50mm passively cooled aluminum enclosure



Optional*

- fully populated variants available
- addon boards for more USB and Ethernet ports
- IMU
- board EEPROM
- PCIe x1 connector
- LM823 WIFI module
- 2 more CSI-2 interfaces (2 lanes each)
- micro SD card
- RTC battery (rechargeable)
- over current fuse (product safety)
- UPS option for graceful power down
- on board MCU for watchdog and remote power cycle (LTE)

* these features are available with alternative and fully populated versions (like JNX30-PD and JNX30-PSE)

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SKU	Kit	Compute module	SSD
70886-N-128	ES-JNX30-N-128GB	Nano	128GB
70886-TX-128	ES-JNX30-TX-128GB	TX2 NX	128GB
70886-NX8-128	ES-JNX30-NX-128GB	Xavier NX 8GB	128GB
70886-NX16-128	ES-JNX30-NX-128GB	Xavier NX 16GB	128GB

Each system includes

- JNX30 carrier board
- compute module (production version with on-module eMMC)
- 128GB Transcend NVME M.2 SSD (PCIe x4)
- passively cooled aluminum enclosure
- 12V 36W power supply (FSP036-DHAN3)
- EU power cable

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