

Boot from SSD with NVIDIA Jetson Xavier NX

JNX30D development systems

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 with the SO-DIMM form factor.

Features

- 128 GB SSD includes: Linux, Jetpack 4.6, SDKs (VisionWorks, DeepStream and more)
- requires Linux host PC and Internet connection to initially flash the system and install the software
- a large variety of add-on modules available from Auvideo
- industrial strength design

Description	JNX30
power in	6V - 19V (5.5/2.5mm barrel connector)
Xavier NX power	5V 8A power supply (over current LED)
HDMI	yes
fan connector	yes
M.2 NVME Key M	yes
M.2 Key E	only with external module (using internal USB)
micro SD	yes
USB 3	1x USB 3.0/3.1 (native - full performance)
micro USB	1x micro USB (device or host mode)
Auto Flashing	yes (plug in host cable and flash)
USB 2	USB 2.0 (JST-GH)
Ethernet	Gigabit RJ45 (1 LED)
CAN	RX and TX (requires CAN transceiver)
PoE option	yes
MIPI CSI-2	2x CSI-2 (4 lanes) plus camera LED (hardware sync available)
UARTs	console UART and user UART
GPIO header	40 pin plus 8 pin with I2Cs, UARTs, SPIs, I2S and GPIOs (uni-directional and 5V tolerant)
crypto chip	for software copy protection and licensing
size	80x104.6mm flat bottom, no components on bottom side



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SKU	Kit	Compute module	SSD
70879-NX8-128	JNX30D-NX8-128GB	Xavier NX 8GB	128GB
70879-NX16-128	JNX30D-NX16-128GB	Xavier NX 16GB	128GB
70879-NX8-2Ti	JNX30D-NX8-2TBi	Xavier NX 8GB	2TB ind.
70879-NX16-2Ti	JNX30D-NX16-2TBi	Xavier NX 16GB	2TB ind.

Each kit includes

- JNX30D carrier board
- compute module (production versions with internal eMMC)
- 128GB or 2TB (industrial) Transcend NVME M.2 SSD (PCIe x4)
- Heatsink/fan (Xavier NX)
- 12V 36W power supply (FSP036-DHAN3)
- EU, US or UK power cable optional

Optional*

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

*available with alternative and fully populated versions

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