JNX30 AI

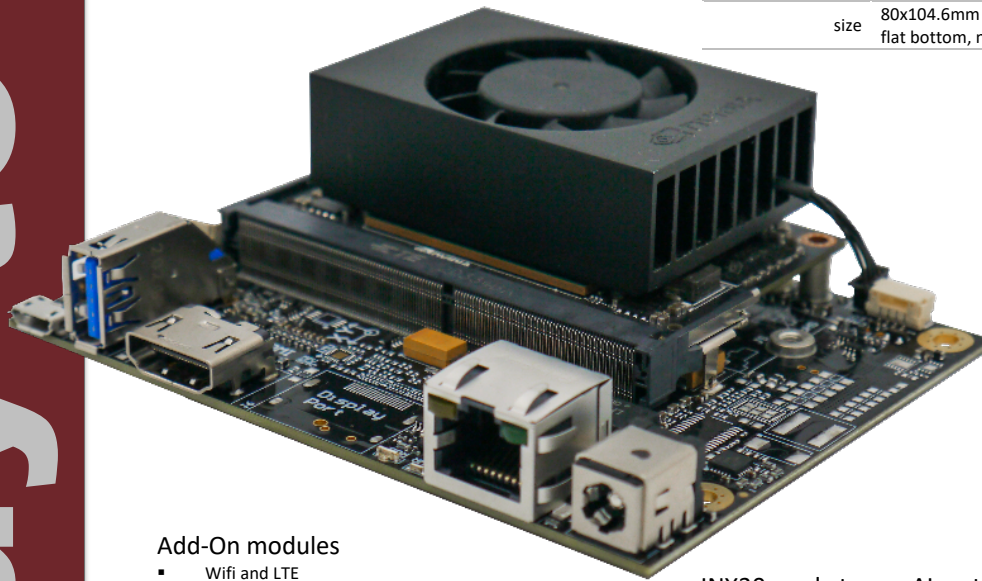## Ready to boot from SSD with NVIDIA Jetson Nano, TX2 NX and Xavier NX

JNX30 AI systems

These systems let you dive into AI with ease. They are configured to allow you to explore AI applications like people detection, face masking and more. The full suite of NVIDIA SDKs is installed. 3rd party applications demonstrate the full potential of the NVIDIA embedded edge solutions. At your choice these systems can be equipped with the entire family of NVIDIA compute modules in the SO-DIMM form factor.

Features

- ready to boot compute module
- flashed and configured to boot from SSD
- 128 GB SSD includes: Linux, Jetpack 4.6, SDKs (VisionWorks, DeepStream and more)
- a large variety of addon modules available from Auvidea
- industrial strength design

Description	JNX30
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
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)
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)
UART	console UART and user UART
crypto chip	for software copy protection and licensing
size	80x104.6mm flat bottom, no components on bottom side

Add-On modules

- Wifi and LTE
- 4x Ethernet (100bT – with PoE)
- 4x Ethernet (GbE – with PoE)
- 4x USB 2.0
- GPIO (solid state switches)
- 6x FPD-Link III cameras
- plus CSI-2 camera bundles

Optional*

- fully populated variants available
- IMU and board EEPROM
- PCIe x1 connector (TX2 NX and Xavier NX)
- 2 more CSI-2 interfaces (2 lanes each)
- micro SD card
- RTC battery (rechargeable)
- 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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JNX30 ready to run AI systems

Auvidea provides three ready to boot from SSD kits, which are pre-configured and ready to boot, which saves you lots of Linux and SDK installation time.

SKU	Kit	Compute module	SSD
70883-N	JNX30-AI-Nano-SSD	Nano	128GB
70883-TX2	JNX30-AI-TX2-SSD	TX2 NX	128GB
70883-NX-8	JNX30-AI-NX-8-SSD	Xavier NX 8GB	128GB
70883-NX-16	JNX30-AI-NX-16-SSD	Xavier NX 16GB	128GB

Each kit includes

- JNX30 carrier board
- compute module (production version with on-module eMMC)
- 128GB Transcend NVME M.2 SSD (PCIe x4)
- heatsink (Nano), heatsink/fan (TX2 NX & Xavier NX)
- 12V 36W power supply (FSP036-DHAN3)
- EU power cable