JNX30D

Development System

Boot from SSD with NVIDIA® Jetson Nano™

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.

The JNX30D features an industrial strength design and is commercially deployable in any volume.

Features

- 128 GB/2 TB 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 addon modules available from Auvidea
- industrial strength design

Description	JNX30D
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

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)
- 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

JNX30D Development Systems

SKU	Kit	Compute module	SSD
70888-N	JNX30D-Nano	Nano	no
70888-N-128	JNX30D-Nano-128GB	Nano	128GB
70888-N-2Ti	JNX30D-Nano-2TB	Nano	2TB ind.

Each kit includes

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