

JN30D



Boot from SSD with NVIDIA Jetson TX2 NX

JN30D

This new JN30D carrier board has been designed specifically for developers and for the Jetson Nano. It is powered by a USB-C 5V 3A (15W) power adapter (not included). It features the 40 pin GPIO header with a pinout similar to the Raspberry Pi.

Features

- 128 GB/2 TB SSD with large boot partition for Linux, Jetpack 4.x, 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	5V 3A (USB-C power in)
HDMI	yes
fan connector	yes
M.2 NVME Key M	yes
M.2 Key E	only with external module (using internal USB 2.0)
micro SD	no
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)
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
- 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

JN30D Development Systems

SKU	Kit	Compute module	SSD
70890-TX2	JN30D-TX2	TX2 NX	no
70890-TX2-128	JN30D-TX2-128GB	TX2 NX	128GB
70890-TX2-2T	JN30D-TX2-2TB	TX2 NX	2TB

Each kit includes

- JN30D carrier board
- NVIDIA compute module (production version with eMMC flash)
- 128GB/2TB Transcend NVME M.2 SSD (PCIe x4)
- Heatsink/Fan (TX2 NX)
- 40 pin GPIO header (not soldered)

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