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JNX400 Quad Carrier Board for Xavier NX™ with 5 port GbE switch



SKU: 70843

The JNX400 is a quad carrier board for the Jetson Nano, TX2 NX or Xavier NX.

The key application are inferencing use cases in low energy data centers.

Any mix of compute modules is allowed. The master manages 3 slaves with control (console UART) over power up, reset and flashing (USB). The power supply is optional.

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CONFIGURATION

JNX400 Carrier Board

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includes the JNX400 carrier board

SKU: 70843

€ 699,00

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Delivery Time: ca. 3-4 workdays

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1

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The key applications:

- H.264/H.265 transcoding
- processing of many compressed video feeds from network IP cameras
- inferencing applications in low energy data centers
- designed for 19" rack integration and open rack systems
- desktop use: flashing station for Nano, TX2 NX and Xavier NX

Each compute module slot has a local NVME SSD with up to 2 TB. Optionally we integrate the Transcend TS2TMTE662T2 (2 TByte industrial grade NVME SSD).

The JNX400 integrates a 5 port GbE switch which connects to each of the 4 compute modules.

On top we have integrated four 5Gbit communication channels:

1. 2x horizontal: USB 3.0
2. 2x vertical: 2 lane DSI to CSI-2 (full duplex bi-directional)

On the JNX400 there is a little drawing between slave 1 and 3. Here the hardware is done – but the challenge now is to develop software (drivers) for it.

Limited rev 1 samples are available now. Limited production (rev 2) is planned for late Nov 21. Rev 2 will clean up the fan wiring.

A second use case for this board could be a flashing station for Nano, TX2 NX or Xavier NX. Here the master slot would be populated by a Nano.

The 3 slave slots can host the modules to be flashed (in parallel). So 3 modules can be flashed in parallel.

Technical details of the JNX400:

model	JNX400 carrier board
CPU module	NVIDIA Jetson Nano, TX2 NX or Xavier NX
display	1x HDMI (master)
CSI-2/DSI	internal communications channel between modules
USB 3.0	internal communications channel between modules
USB 2.0	1x: OTG mode (for flashing master) or host mode (requires device tree changes)
crypto chips	4x ATSHA204A-MAHCZ-T crypto chip for software protection and licensing
network	1x GbE (plus additional RJ45 for feed through)
M.2 storage	4x M.2 NVME PCIe x4 2260/2280 (each per slot)
I2C/CAN	I2C (for OLED status display) or CAN (inter module communication) – default: I2C (CAN optional)
master/slave	master supervises 3 slaves (console access and flashing via USB)
RGB LED	connector with 3 PWM channels (open drain MOSFET output – 12V 100mA)
UART	4: master console and 3 slave user UARTs
GPIOs	3 with LED connector
fan	7x 4 pin picoblade FAN headers (with PWM control via I2C PWM controller)
power	12V to 24V power in (Wuerth 691325310002)
size	231mm x 104.6mm
components	on top side only (flat-bottom)
production	first prototypes available now, limited production in Nov 21

Additional information

Configuration JNX400 Carrier Board, JNX400 Carrier Board +
4x Xavier NX, JNX400 Carrier Board + 4x
Xavier NX + 4x M.2 2TB NVME SSD

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