

Carrier board for the NVIDIA® Jetson Nano™ compact and low cost

Jetson Nano specific

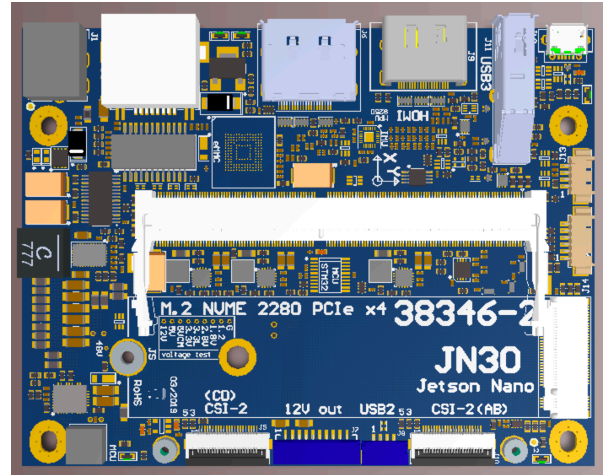
This new JN30 carrier board turns the Jetson Nano compute module into a super mini computer. The Nano offers very high computational (quad core ARM® Cortex®-A57 with up to 1.43 GHz) and graphical (NVIDIA Maxwell™ with 128 CUDA cores) processing performance in a tiny form factor.

JN30

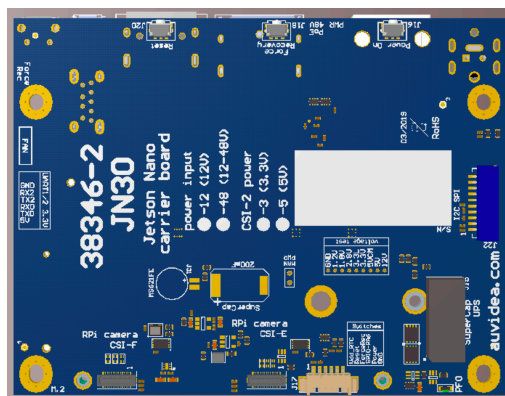
- easy aluminum case integration
- easy flashing: just connect USB OTG cable
- high performance storage: M.2 NVME PCIe x4
- supports both Nano dev kit module (with SD card) and Nano production module (with eMMC)

Applications

- industrial AI computers
- digital signage systems



Carrier	Nano dev kit	JN30-LC	JN30
CPU module	NVIDIA Jetson Nano	NVIDIA Jetson Nano (SD/eMMC)	NVIDIA Jetson Nano (SD/eMMC)
display 1	HDMI	HDMI	HDMI
display 2	Display Port	-	Display Port
CSI-2	1 four lane	2 four lane	2 four lane and 2 two lane
USB 3.0	4 (shared via USB 3.0 hub)	1	1
USB 2.0	-	1 (4 with optional USB module)	1 (4 with optional USB module)
micro USB	manual flashing	automatic flashing	automatic flashing
network	GbE	GbE	GbE with PoE PSE (15 watts)
M.2 storage	-	-	M.2 NVME PCIe x4 2260/2280
eMMC storage	-	extra eMMC (optional)	extra eMMC (optional)
IMU	-	-	MPU 9250 9 axis sensor
aluminum case	-	passively cooled optional	passively cooled optional
supercap option	-	-	for graceful power down
UART	-	UART1 and UART 2	UART1 and UART 2
GPIOs	40 pin header	-	SPI, I2C, GPIO and switches
fan	4 pin fan header	4 pin picoblade (for TX1/TX2 fan)	4 pin picoblade (for TX1/TX2 fan)
power	5V 2A	12V 1A	12V to 48V
size	79mm x 100mm	80mm x 104.6mm	80mm x 104.6mm
components	on both sides	on top side only (flat bottom)	on both sides
price (1 pc)		€99 net (plus VAT)	€179 net (plus VAT)
price (100 pcs)		€79 net (plus VAT)	€149 net (plus VAT)
Production		April 2019	April 2019



bottom view

Options

Flexible design and manufacturing

- designed and manufactured in Germany
- in-house fully automated production line with 3D AOI
- 2 standard versions: JN30-LC and JN30
- special configuration possible with minimum purchase of 25 pcs (display port, M.2, PoE, 48V power in, supercap option, 2 RPi camera module connectors, SPI, I2C, switches, etc.)
- design services: you architect your custom carrier board and Auvidea designs and produces it - please ask for a quote
- a more compact version of the JN30 is planned

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