

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

### Jetson Nano specific

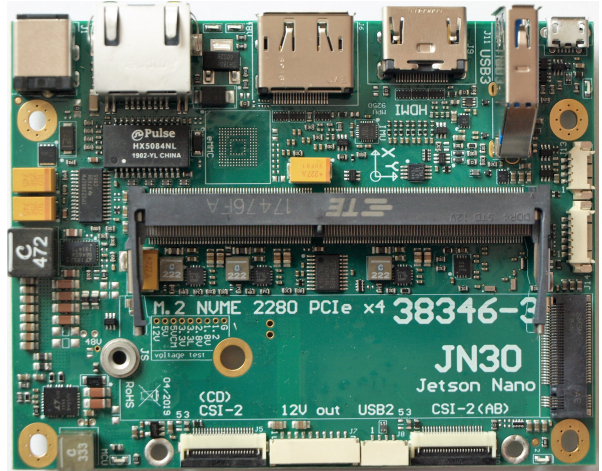
This new JN30 carrier board turns the Jetson Nano compute module into a super mini computer. The Nano offers very high computational (quad core ARM® Cortex®-A57 with up to 1.43 GHz) and graphical (NVIDIA Maxwell™ with 128 CUDA cores) processing performance in a tiny form factor.

### JN30

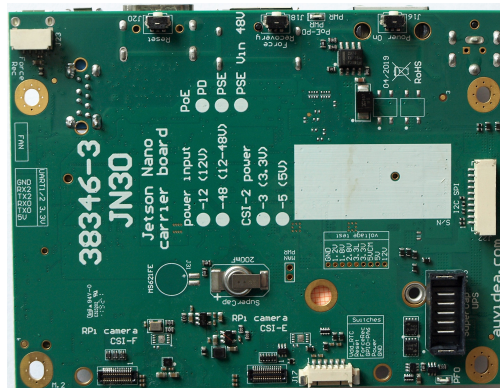
- easy aluminum case integration
- easy flashing: just connect a USB OTG cable
- high performance storage: M.2 NVMe PCIe x4
- 2 versions support either Nano dev kit module (with SD card - 38346-3) or Nano production module (with eMMC - 38346-4)

### Applications

- industrial AI computers
- digital signage systems



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



bottom view

## Options

### Flexible design and manufacturing

- designed and manufactured in Germany
- in-house fully automated production line with 3D AOI
- 3 standard versions: JN30-LC, JN30-PSE and JN30-PD
- 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 Auvideo designs and produces it - please ask for a quote
- a more compact version of the JN30 is planned

NVIDIA, the NVIDIA logo, Jetson, Jetson Nano and Maxwell are registered trademarks and/or trademarks of NVIDIA Corporation in the United States and other countries. Other company and product names may be trademarks of the respective companies with which they are associated.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Auvidea:](#)

[70780](#) [70781](#) [70783](#) [70787](#) [70788](#) [70791](#) [70795](#) [70807](#)