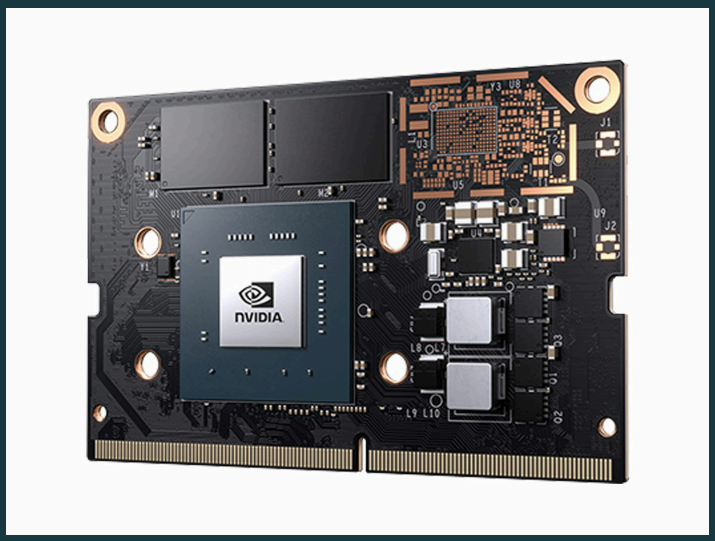
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INDUSTRIAL PRODUCT DATASHEET

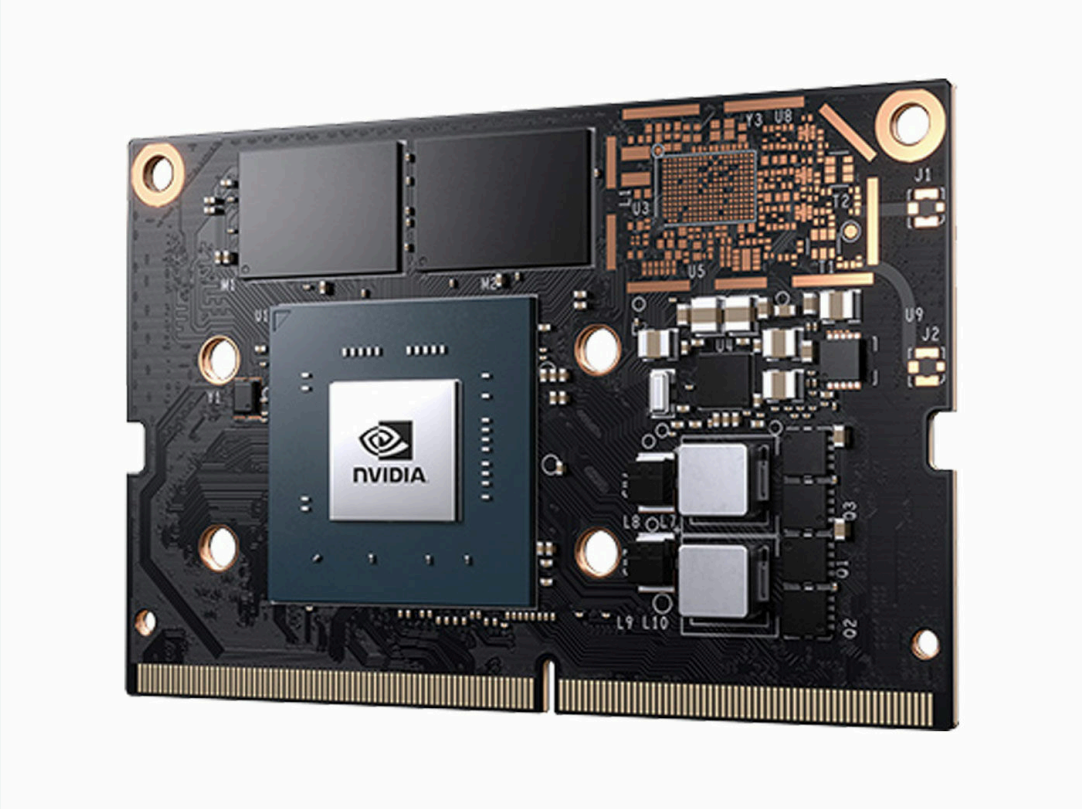
NVIDIA® Jetson Nano™ Module

NVIDIA Jetson Nano Module: Pocket-size 472 GFLOPs AI computing with low power and flexible ODM customization for AI video analytics, machine vision, and autonomous mobile robots.

SKU	UPDATED	PRICE
206001689	2025-06-03 11:27:34	$129.00(Excl. VAT)



Overview



The NVIDIA Jetson Nano module delivers 472 GFLOPs (0.5 TFLOPs) of AI performance in a compact 70mm x 45mm form factor, featuring a 128-core Maxwell GPU and quad-core ARM CPU for concurrent neural network processing. With low power demands of just 5-10 watts and full NVIDIA JetPack SDK support, it enables efficient AI development and seamless integration via ODM customization for applications like AI video analytics, machine vision, and autonomous mobile robots.

Key Features

- **Pocket-size Module**: compact at 70mm x45mm
- **Big Compute Performance:** it delivers 472 GFLOPs(0.5 TFLOPs) AI performance, featuring a 128-core Maxwell architecture GPU and a Quad-core ARM CPU, which can run multiple neural networks in parallel and processes high-resolution sensors concurrently.
- **Low Power Demands:** high-performance computing at just 5-10 watts.
- **Efficient AI Development with NVIDIA JetPack™ SDK:** supports the entire NVIDIA Software Stack for application development and optimization.
- **Flexible Customization:** Integrate the production-grade module seamlessly into your full systems, which are empowered by our customizable ODM services to meet the specific hardware needs for device makers and integrators, including form factor adjustments, image flashing, and logo customizations.

Specification

AI Performance	Jetson Nano 4GB - 0.5 TFLOPS
GPU	128-core NVIDIA Maxwell™ GPU
CPU	Quad-core ARM A57 @ 1.43 GHz
Memory	4 GB 64-bit LPDDR4 25.6 GB/s
Storage	16 GB eMMC 5.1
Video Encoder	1x 4K30 (H.265) | 2x 1080p60 (H.265)
Video Decoder	1x 4K30 (H.265) | 2x 1080p60 (H.265)
Camera	Up to 4 cameras, 12 lanes MIPI CSI-2, D-PHY 1.1 (up to 18 Gbps)
Power Consumption	5-10W
Dimensions (W x D)	69.6mm x 45mm

Applications

- **AI Video Analytics**
- **Machine Vision**
- **Autonomous Mobile Robot (AMR)**

Part List

NVIDIA® Jetson Nano™ Module	x1

Compliance & Logistics



HSCODE	8517180050
USHSCODE	8543708800
UPC	
EUHSCODE	8543709099
COO	CHINA

FCC Requirement

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

15.21

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy.

If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Resource Links

- https://www.seeedstudio.com/NVIDIAr-Jetson-Nanotm-Module-1.html
- NVIDIA Jetson Nano Datasheet
- Seeed NVIDIA Jetson Hardware Catalog

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