



NVIDIA JETSON TX2 4GB MODULE ADVANCED AI AT THE EDGE

The NVIDIA® Jetson™ TX2 4GB module delivers powerful computing performance in a small credit card form factor to run modern AI workloads. It can be configured to operate between 7.5 W and 15 W, making it ideal for a diverse set of intelligent edge devices like robots, drones, smart cameras, and portable medical devices. The module offers three times the performance per-watt of Jetson Nano, enabling the development of high-performance, energy-efficient, and affordable products.

Jetson TX2 4GB features a variety of standard hardware interfaces, ranging from low-speed GPIOs to high-speed PCIe and USB. This makes it easy to integrate into a wide range of products and form factors.

The module is supported by NVIDIA JetPack™, which includes a board support package (BSP), Linux OS, NVIDIA CUDA®, and cuDNN. Plus, it features NVIDIA TensorRT™ software libraries for deep learning, computer vision, GPU computing, multimedia processing, and much more. The software is also easy-to-use, making it fast and simple to get started.

The same JetPack SDK is used across the entire NVIDIA Jetson family of products and is fully compatible with NVIDIA's world-leading AI platform for training and deploying AI software. This proven software stack reduces complexity, development time, and overall effort for developers.

KEY FEATURES

> Power

- Voltage input: 9 V–19.6 V
- Module power: 7.5 W/15 W

> Environment

- Operating temperature: -25 C to 80 C
- Storage temperature: -25 C to 80 C
- Humidity: TBD
- Vibration: TBD
- Shock: TBD

TECHNICAL SPECIFICATIONS

GPU	256-core Pascal™ GPU
CPU	Dual-core NVIDIA Denver 2 Quad-core ARM A57 complex
Memory	4 GB 128 Bit LPDDR4 25.6 GB/s
Storage	16 GB eMMC 5.1
Video Encode	4Kp60 3x 4Kp30 4x 1080p60 8x 1080p30 (H.265)
Video Decode	2x 4Kp60 4x 4Kp30 7x 1080p60 14x 1080p30 (H.264/H.265)
CSI	12 (3x4 or 6x2) lanes MIPI CSI-2 D-PHY 1.1
Connectivity	10 / 100 / 1000 BASE-T Gigabit Ethernet
Display	HDMI 2.0, eDP 1.4, DP 1.2
PCIe	1x4+1x1 OR 2x1+1x2 PCIe Gen2
USB	3x USB 3.0, 3x USB 2.0
Others	I2C, I2S, SPI, UART, SD/SDIO, SATA, GPIO
Mechanical	87 mm x 50 mm 400-pin connector

Learn more at <https://developer.nvidia.com/jetson>

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