



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>

© 2019 NVIDIA Corporation. All rights reserved. NVIDIA, the NVIDIA logo, CUDA, Jetson, NVIDIA Pascal, and TensorRT are trademarks and/or registered trademarks of NVIDIA Corporation in the U.S. and other countries. Other company and product names may be trademarks of the respective companies with which they are associated. ARM, AMBA and ARM Powered are registered trademarks of ARM Limited. Cortex, MPCore and Mali are trademarks of ARM Limited. All other brands or product names are the property of their respective holders. "ARM" is used to represent ARM Holdings plc; its operating company ARM Limited; and the regional subsidiaries ARM Inc.; ARM KK; ARM Korea Limited.; ARM Taiwan Limited; ARM France SAS; ARM Consulting (Shanghai) Co. Ltd.; ARM Germany GmbH; ARM Embedded Technologies Pvt. Ltd.; ARM Norway, AS and ARM Sweden AB. JUL19