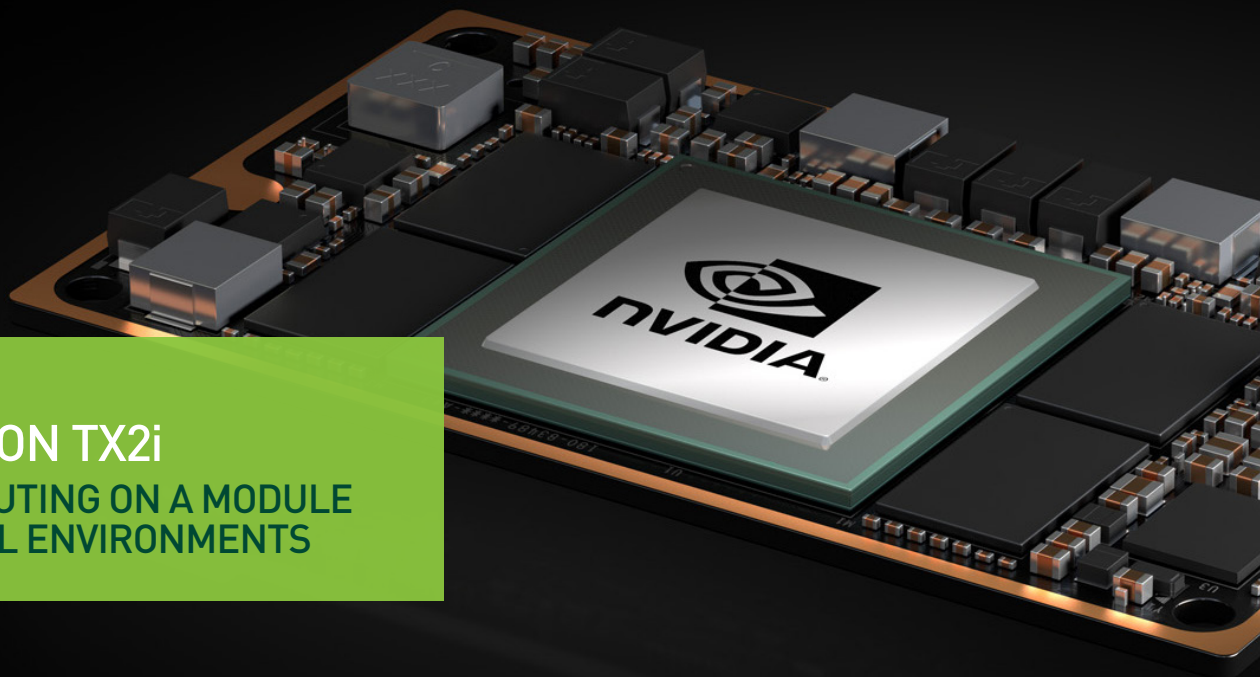# NVIDIA JETSON TX2i

AI SUPERCOMPUTING ON A MODULE FOR INDUSTRIAL ENVIRONMENTS

EXTEND AI PERFORMANCE TO INDUSTRIAL ENVIRONMENTS WITH THE HIGH-PERFORMANCE, LOW-POWER JETSON TX2i.

The most innovative technology for GPU-enabled AI computing comes in a supercomputer the size of a credit card. Its rugged design, small form factor, and reduced power envelope make the NVIDIA® Jetson™ TX2i module ideal for high-performance edge computing devices such as industrial robots, machine vision cameras, and portable medical equipment.

Jetson TX2i features a variety of standard hardware interfaces that make it easy to integrate it into a wide range of products and form factors. Plus, it comes with the complete NVIDIA Jetpack SDK, which includes the BSP, libraries for deep learning, computer vision, GPU computing, multimedia processing, and much more to accelerate your software development. Designed for reliable operation in harsh industrial environments, Jetson TX2i provides long operating life (MTBF) and comes with an extended warranty and sales lifecycle.

For detailed specifications, design guides, Jetpack, and everything else you need to develop with Jetson, go to developer.nvidia.com/jetson.

KEY FEATURES

Jetson TX2i Module
> NVIDIA Pascal™ architecture GPU
> Dual-core Denver 2 64-bit CPU and quad-core ARM A57 Complex
> 8 GB 128 bit LPDDR4 (ECC support)
> 32 GB eMMC 5.1

Power
> Voltage input: 9 V–19.6 V DC
> Module power: 10 W – 20 W*

Software
> NVIDIA Linux for Tegra® driver package, including Ubuntu-based sample file system
> AI, Compute, Multimedia, and Graphics libraries and APIs

Enviroment
> Operating temperature: -40C – 85C
> Storage temperature: -40C – 85C
> Humidity: 95%RH, -10C to 65C (non-condensing)
> Vibration: 5 G RMS 10 to 500 Hz (random/sinusoidal)
> Shock: 140 G, half sine 2 ms duration

CONTENTS
> NVIDIA Jetson TX2i
> Attached Thermal Transfer Plate (TTP)

TECHNICAL SPECIFICATIONS

FEATURES	JETSON TX2i
Graphics	NVIDIA Pascal™, 256 NVIDIA CUDA® cores
CPU	HMP Dual Denver 2/2MB L2 + Quad ARM® A57/2MB L2
Video	4K x 2K 60 Hz encode (HEVC) 4K x 2K 60 Hz decode (12-bit support)
Memory	8 GB 128-bit LPDDR4 (ECC support)
Display	HDMI 2.0 / eDP 1.4 / 2x DSI / 2x DP 1.2
CSI	Up to 6 cameras (2 lane) CSI2 D-PHY 1.1 (2.5 Gbps/lane)
PCIE	Gen 2	1x4 + 1x1 OR 2x1 + 1x2
Data Storage	32 GB eMMC, SDIO, SATA
Other	CAN, UART, SPI, I2C, I2S, GPIOs
USB	USB 3.0 + USB 2.0
Connectivity	1 Gigabit Ethernet
Power	10 W / 20 W*
Mechanical	50 mm x 87 mm (400-pin compatible board-to-board connector)

Visit **www.nvidia.com/jetson** to learn more.