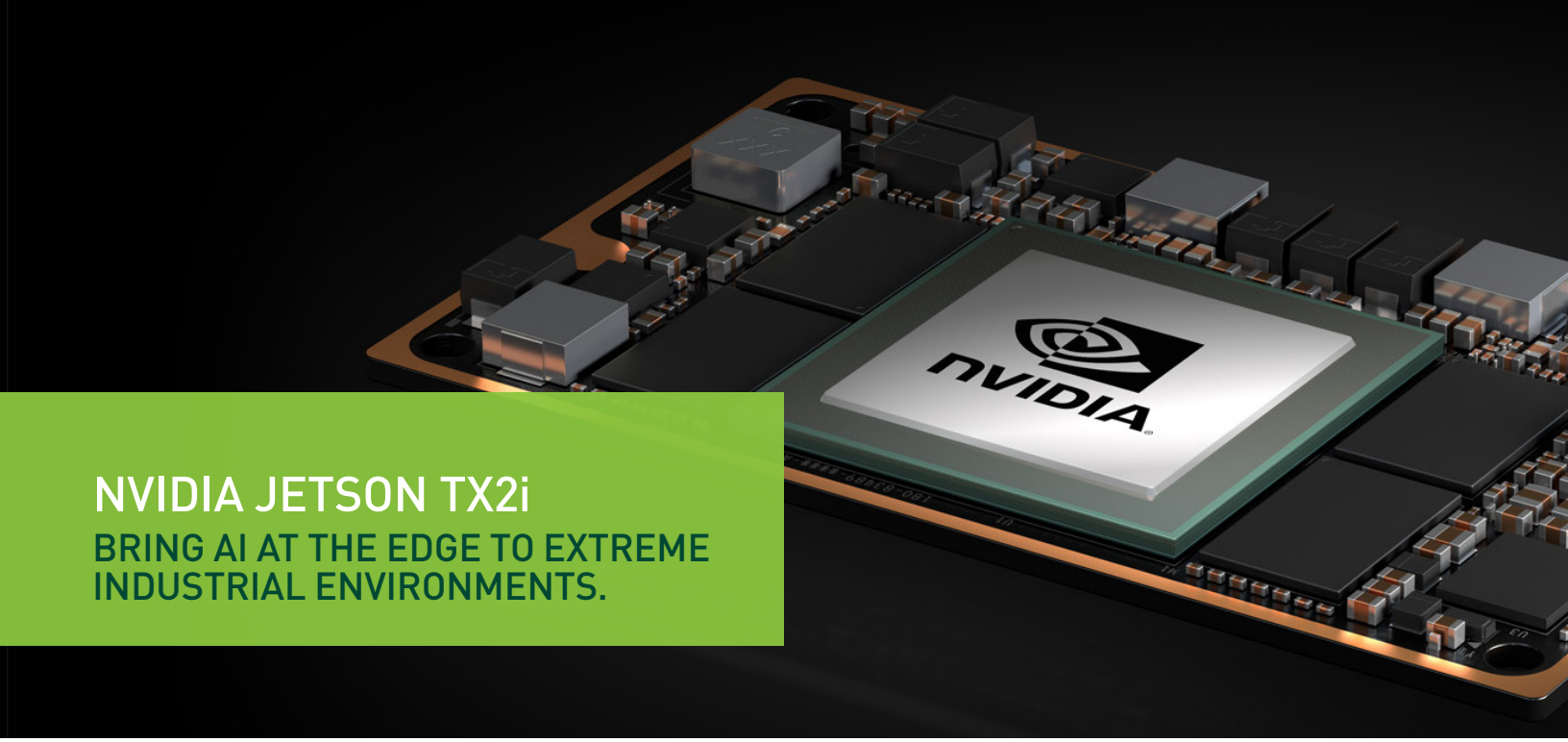

NVIDIA JETSON TX2i

BRING AI AT THE EDGE TO EXTREME INDUSTRIAL ENVIRONMENTS.

EXTEND AI COMPUTING 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 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 gives you 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-derived sample file system
- AI, compute, multimedia and graphics libraries, and APIs

Environment

- Operating temperature: -40 C – 85 C
- Storage temperature: -40 C – 85 C
- Humidity: 95% RH, -10 C to 65 C (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.

* Power and thermal solution: Refer to the OEM Product Design Guide and the Thermal Design Guide
** I/O expansion headers: Refer to product documentation for header specification