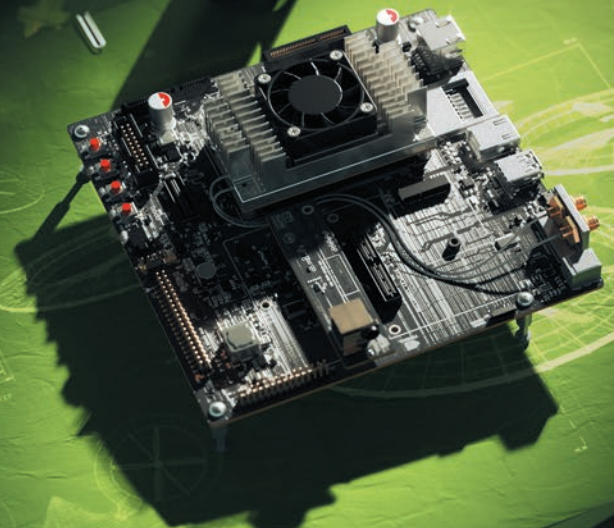




NVIDIA® JETSON™ TX1 DEVELOPER KIT FULL-FEATURED DEVELOPMENT PLATFORM FOR VISUAL COMPUTING



THE JETSON TX1 DEVELOPER KIT IS A FULL-FEATURED DEVELOPMENT PLATFORM FOR VISUAL COMPUTING DESIGNED TO GET YOU UP AND RUNNING FAST.

It comes pre-flashed with a Linux environment, includes support for many common APIs, and is supported by NVIDIA's complete development tool chain. The board also exposes a variety of standard hardware interfaces, enabling a highly flexible and extensible platform. This makes it ideal for all your applications requiring high computational performance in a low-power envelope.

For software updates and the developer SDK, go to <http://developer.nvidia.com/embedded-computing>. The SDK includes an OS image that you will load onto your device, developer tools, supporting documentation, and code samples to help you get started.

KEY FEATURES

Jetson TX1 Module

- > NVIDIA Maxwell™ GPU with 256 NVIDIA® CUDA® Cores
- > Quad-core ARM® Cortex®-A57 MPCore Processor
- > 4 GB LPDDR4 Memory
- > 16 GB eMMC 5.1 Flash Storage
- > Connects to 802.11ac Wi-Fi and Bluetooth enabled devices
- > 10/100/1000BASE-T Ethernet

Buttons

- > Power On/Off
- > Reset
- > Force Recovery
- > User-Defined

Power Options

- > External 19V AC adapter

I/O

- > USB 3.0 Type A
- > USB 2.0 Micro AB (supports recovery and host mode)
- > HDMI
- > M.2 Key E
- > PCI-E x4
- > Gigabit Ethernet
- > Full-Size SD
- > SATA Data and Power
- > GPIOs, I2C, I2S, SPI*
- > TTL UART with Flow Control
- > Display Expansion Header*
- > Camera Expansion Header*

* I/O expansion headers: refer to product documentation for header specification.



KIT CONTENTS

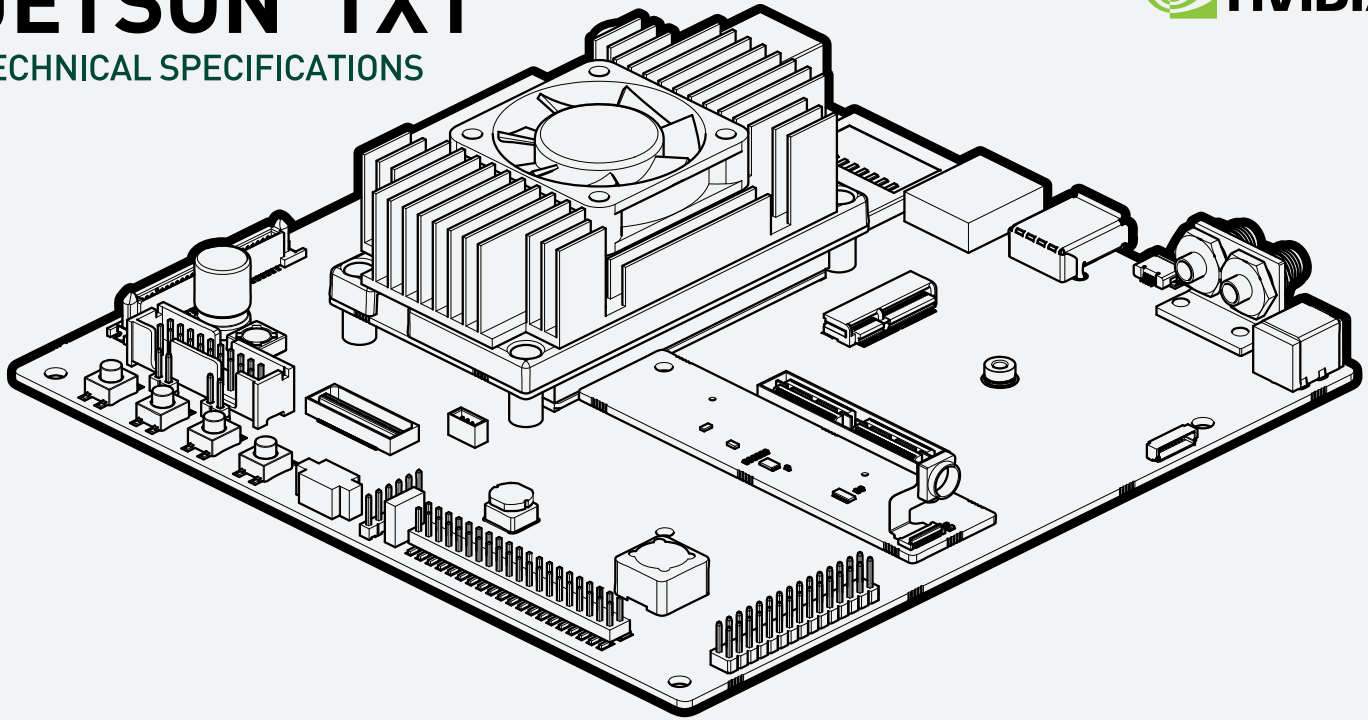
- > NVIDIA Jetson TX1 Developer Board
- > AC Adapter
- > Power Cord
- > USB Micro-B to USB A Cable
- > USB Micro-B to Female USB A Cable
- > Rubber Feet (4)
- > Quick Start Guide
- > Safety Booklet
- > Antennas to connect to Wi-Fi enabled devices (2)

RECOMMENDED, BUT NOT INCLUDED:

- > HDMI Display and Cable (Type A)
- > Keyboard and Mouse
- > JTAG Debugger
- > TTL to RS232 UART

JETSON™ TX1

TECHNICAL SPECIFICATIONS



DEVELOPER KIT

GPU	1 TFLOP/s 256-core Maxwell
CPU	64-bit ARM A57 CPUs
Memory	4 GB LPDDR4 25.6 GB/s
Storage	16 GB eMMC
Connectivity	Connects to 802.11ac Wi-Fi and Bluetooth-enabled devices
Networking	10/100/1000Mbit Ethernet
Camera	5MP Fixed Focus
USB	USB 3.0 + USB 2.0
PCIe	Gen 2 1x1 (M.2) + 1x4 (full x4 slot)
Size	170mm x 170mm
Deployment	Module (Jetson TX1)

DEVELOPER KIT	US	EUROPE	JAPAN	CHINA, TW, KOR, AUS/NZ
PN	945-82371-0000-000	945-82371-0005-000	TBD	TBD
UPC	812674020198	812674020419	TBD	TBD
Weight (no pkg)	0.85 lbs	0.95 lbs	0.95 lbs	0.95 lbs
Weight (w/ pkg)	3.30 lbs	4.25 lbs	4.25 lbs	4.25 lbs
Packed length	8.750"	8.750"	8.750"	8.750"
Packed width	8.250"	8.250"	8.250"	8.250"
Packed depth	4.750"	5.375"	5.375"	5.375"
Case qty	16	12	12	12
Pallet qty	128	144	144	144
Country of origin	China	China	China	China

*All information subject to change.

Visit www.nvidia.com/embedded to learn more.