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

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.

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

Power Options
> External 19V AC adapter

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 TFL0P/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 x1 [M.2] + 1x4 (full x4 slot)
- Size: 170mm x 170mm
- Deployment: Module (Jetson TX1)

DEVELOPER KIT

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*All information subject to change.
Visit www.nvidia.com/embedded to learn more.

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