

SEEED-102110403

NVIDIA® Jetson™ TX2i Module



PRODUCT DETAILS

Seeed Studio NVIDIA® Jetson™ TX2i Module exhibits rugged design and small form factor. This module features rich interfaces for AI applications and supports the Ubuntu Linux system. The reduced power envelop of this module makes it ideal for high-performance edge computing devices. These devices include industrial robots, machine vision cameras, and portable medical equipment.

Specifications

- 1.26 TFLOPs AI Performance
- GPU:
 - 256-core NVIDIA Pascal™ GPU
- CPU:
 - Dual-Core NVIDIA Denver 2 64-Bit CPU and Quad-Core ARM® Cortex®-A57 MPCore processor
- Memory:

- 8GB 128-bit LPDDR4 (ECC Support) 51.2GB/s
- Storage:
 - 32GB eMMC 5.1
- PCIE:
 - 1 x1 + 1 x4 OR 1 x1 + 1 x1 + 1 x2 (PCIe Gen2)
- Networking:
 - 10/100/1000 BASE-T Ethernet
- CSI Camera:
 - Up to 6 cameras (12 via virtual channels, 12 lanes MIPI CSI-2, D-PHY 1.2 (up to 30Gbps), C-PHY 1.1 (up to 41Gbps))
- Video:
 - Encode: 500MP/sec, 1x 4K @ 60 (HEVC), 3x 4K @ 30 (HEVC), 4x 1080p @ 60 (HEVC)
 - Decode: 1000MP/sec, 2x 4K @ 60 (HEVC), 7x 1080p @ 60 (HEVC), 20x 1080p @ 30 (HEVC)
- Display:
 - 2 multi-mode DP 1.2/eDP 1.4/HDMI 2.0, 2 x4 DSI (1.5Gbps/lane)
- Mechanical:
 - 87mm x 50mm, 400-pin connector
- 9V - 19.6V DC input
- 10W - 20W module power
- NVIDIA Linux for Tegra® driver package, including Ubuntu-derived sample file system
- AI, Compute, Multimedia, and Graphics libraries and APIs

Applications

- Industrial robots
- Machine vision cameras
- Portable medical equipment