

ACE-C6-TK1

Features

- Powered by NVIDIA TEGRA K1 processor features the same high-performance, power-efficient NVIDIA Kepler™-based GPU.
- In alliance with COM Express Compact Type 6 form factor, highly compatibility and flexibility for easy deployment.
- Balanced power envelope suitable for mobile/embedded environments.
- Ideal for mobile medical image, augmented reality, advanced driver assistance systems, drones and robotic version systems.

Specifications

Processor

- NVIDIA Tegra K1
 - 4-Plus-1 ARM Cortex-A15™r3"

Graphics

- NVIDIA Kelper GPU with 192 CUDA cores
- 325 GFLOPS

Memory

- 2GB DDR3L

Video Interfaces

- Single Channel 18/24 bit LVDS or eDP
- HDMI
- 2x MIPI CSI

Mass Storage

- 16GB eMMC4.51 Flash
- 1x serial ATA interface(3Gb/s)
- 1x micro SD slot

LAN Port

- 1x GbE

USB

- 5x USB2.0 Host Ports(1 for OTG)
- 1x USB3.0 Host Port

PCI Express

- 1x Half-Mini Card
- 1x Full-Mini Card

Audio

- 1x HD Audio
 - 1x Mic-in(Pin header)
 - 1x Line-out(Pin header)

or

- 1x I2S

Serial Port

- 4x UARTs(1x 1.8V and 3x 3.3V tolerance)

Other Interfaces

- 1x I2C Bus
- 1x SM Bus
- 4x GPI, 4x GPO
- SPI Interface
- Watch Dog Timer
- Real Time Clock
- Power Management Signals
- Thermal/FAN Management
- Onboard FAN connector



Power Supply

- +12V_{DC}

Dimensions

- COM Express Compact, Type 6
- 95 mm x 95 mm

Operating Temperature

- 0°C ~ +55°C (Standard Version)
- -20°C ~ +70°C (Optional)

Operating Humidity

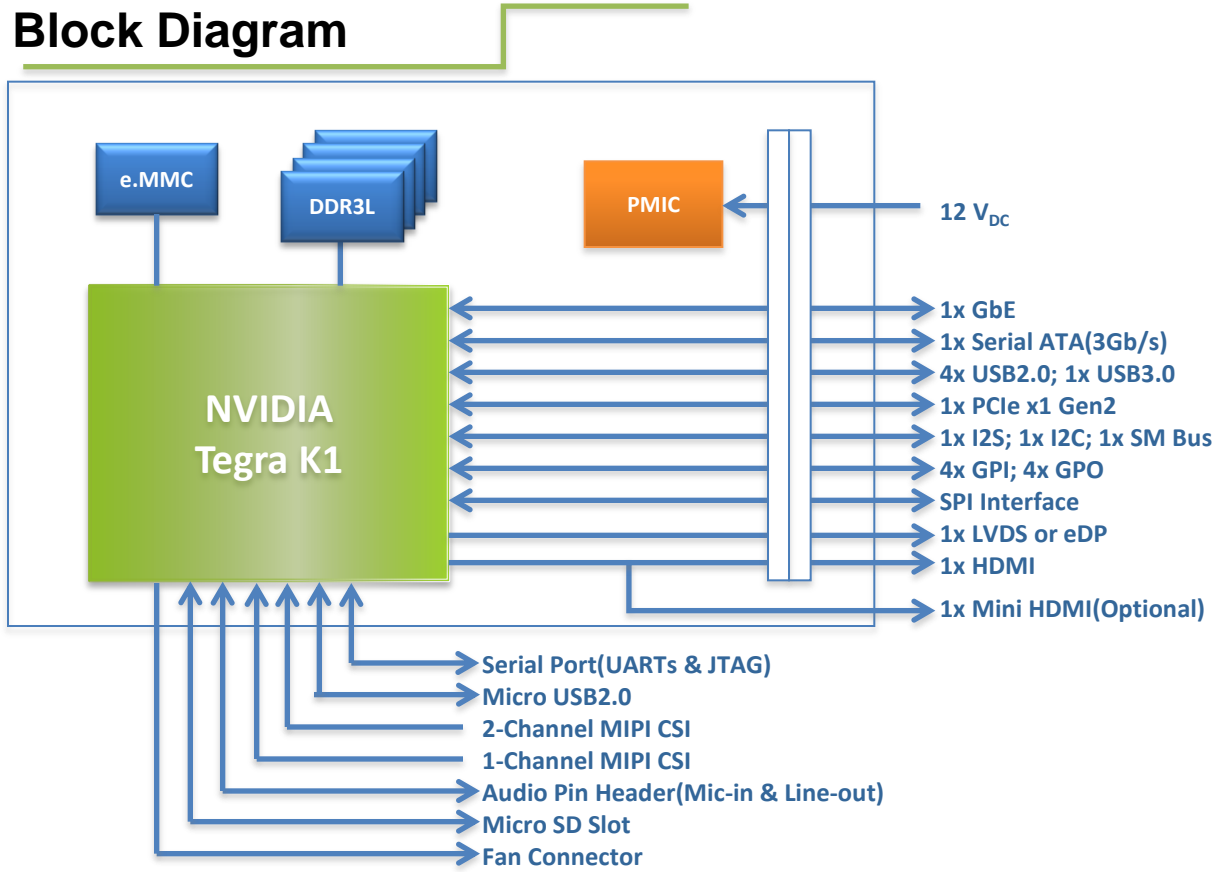
- 10% ~ 90%

Storage Temperature

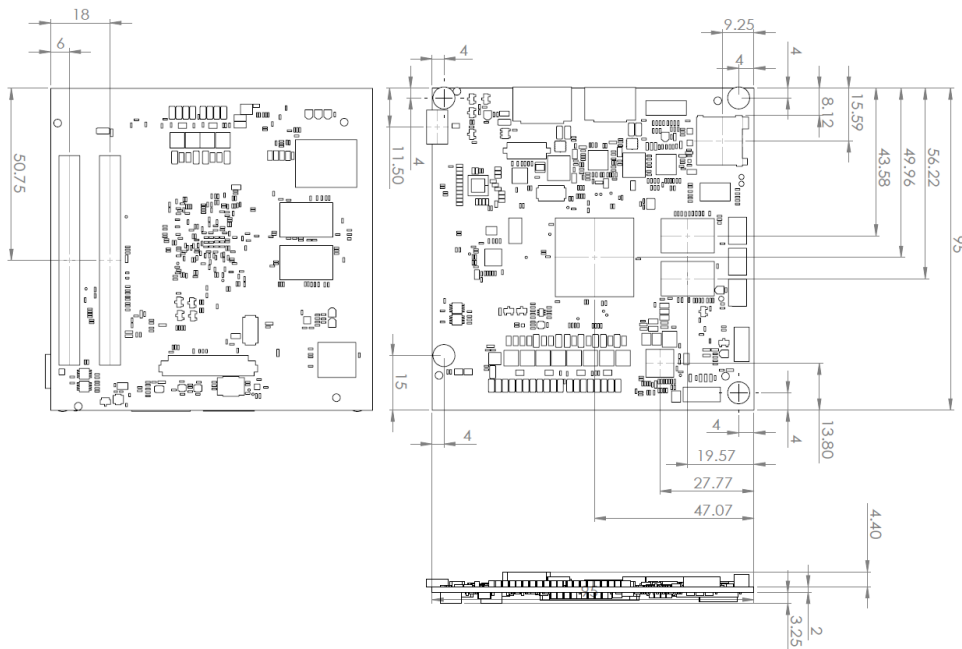
- -40°C ~ +125°C

ACE-C6-TK1

Block Diagram



Mechanical



ACE-C6-TK1

Ordering Information

Module Number	Description
ACE-C6-TK1-x	TK1, COM Express Module, Heat spreader, 0°C ~ +55°C
ACE-C6-TK1-Bx	TK1, COM Express Module, Heat spreader, -20°C ~ +70°C

x - Conformal Coating code: Blank: Without coating; C: With coating.