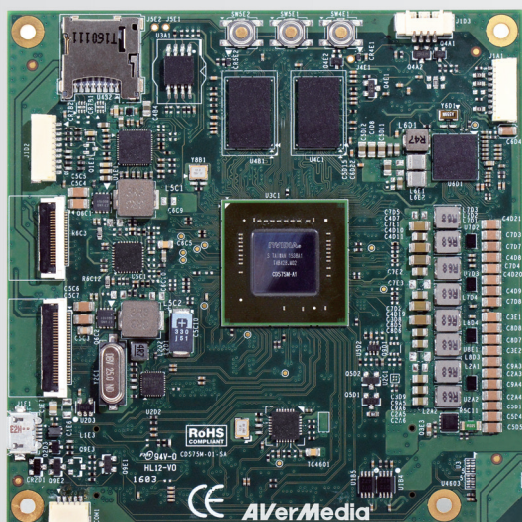# AVerMedia

EK611-11
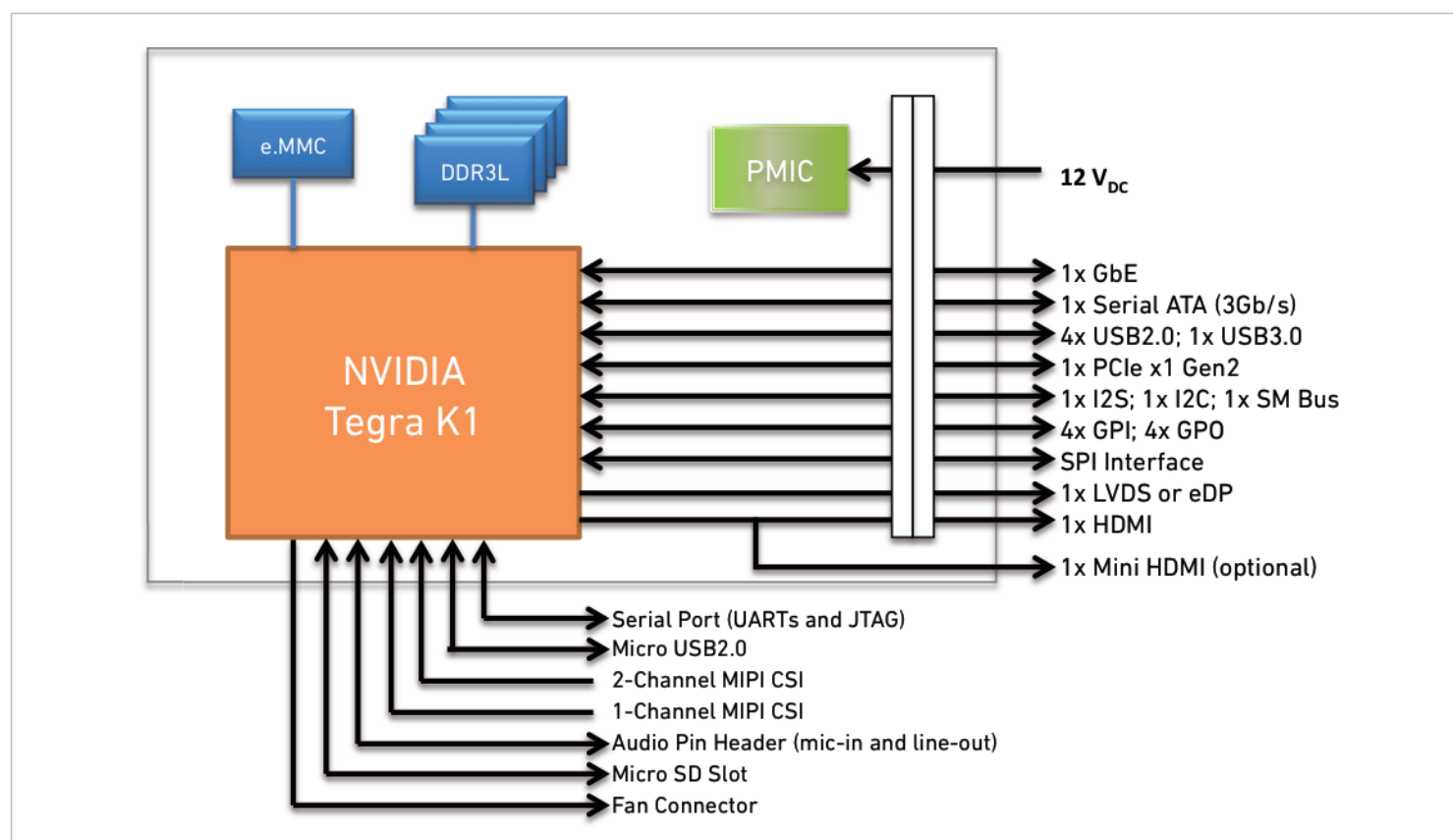## Tegra TK1 COM Express Compact Type 6

Features

- Powered by NVIDIA Tegra K1 processor, EK611-11 is inherited by an combination of 192 supercomputer-class GPU cores, incredible graphics horsepower, and extraordinary power efficiency.

- Comply to the form factors of COM Express Compact Type 6, EK611-11 can be easily deployed for the embedded applications.

- Built on NVIDIA Kepler™ and supported by NVIDIA CUDA GPU computing language, EK611-11 is perfectly designed for the embedded world, such as medical imaging, facial recognition, augmented reality, automotive application, drone and robot vision system, and advanced driver assistance system.

Specifications

Processor	NVIDIA Tegra K1 4-Plus-1 ARM Cortex-A15"r3"	**Serial Port**	4x UARTs (1x 1.8V and 3x 3.3V)
Graphics	NVIDIA Kelper GPU with 192 CUDA cores 325 GFLOPS	**Other Interface**	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
Memory	2GB DDR3L		
Mass Storage	16GB eMMC4.51 Flash 1x serial ATA interface (3Gb/s) 1x micro SD slot		
Video Interface	Single Channel 18/24 bit LVDS or eDP HDMI 2x MIPI CSI		
		Power Supply	+12VDC
		Operating Temperature	0°C ~ +55°C (standard version) -20°C ~ +70°C (optional)

Audio	1x HD Audio
	    1x Mic-in (pin header)
	    1x Line-out (pin header)
	or
	    1x I2S
		Operating Humidity	10% ~ 90%

		Storage Temperature	-40°C ~ +125°C
LAN Port	1x Gigabyte Ethernet		
USB	5x USB2.0 Host Ports (1 for OTG) 1x USB3.0 Host Port	**Dimensions**	COM Express Compact, Type 6 95 mm x 95 mm
PCI Express	1x Half Mini-PCIe Slot		

Signal Connection Diagram

e.MMC

DDR3L

PMIC

12 V$_{DC}$

NVIDIA
Tegra K1

1x GbE
1x Serial ATA (3Gb/s)
4x USB2.0; 1x USB3.0
1x PCIe x1 Gen2
1x I2S; 1x I2C; 1x SM Bus
4x GPI; 4x GPO
SPI Interface
1x LVDS or eDP
1x HDMI
1x Mini HDMI (optional)

Serial Port (UARTs and JTAG)
Micro USB2.0
2-Channel MIPI CSI
1-Channel MIPI CSI
Audio Pin Header (mic-in and line-out)
Micro SD Slot
Fan Connector

Dimensions