

MicroGEA STM32MP1

MicroGEA STM32MP1 is based on the new STM32MP157 processor from ST equipped with a dual-core Cortex-A7 and a Cortex-M4.

The new module offers very high performance, real-time capabilities, and low-power operation. The SOM comes with a wide range of peripherals included in an amazing form factor (25mm x 25mm).



HIGHLIGHTS

Based on ST® STM32MP157 processor offers both 32 bit Dual Core Arm® Cortex® - A7 @ 650 MHz + 32-bit Arm® Cortex® - M4 @ 200 MHz with FPU/MPU, optimized for high performance energy efficient processing.



yocto
PROJECT

APPLICATIONS



Industrial



Automotive



Transportation


















Robotics



Biomedical/
Medical devices

FEATURES

 CPU	ST® STM32MP157CACAC	 USB	Up to 2 x USB HOST 1 x USB OTG
 CORES	Dual Core Arm® Cortex® - A7@ 650 MHz + 32-bit Arm® Cortex® - M4 @ 200 MHz	 AUDIO	I2S interface
 MEMORY	256MB DDR3L-800	 PERIPHERAL INTERFACES	Up to 5 I2C Up to 6 SPI Up to 31 PWM Up to 7 UART Up to 2 CAN Bus Up to 2 SDIO interfaces JTAG interface Up to 20 ADC
 GRAPHICS	Open GL ES2.0 GPU @ 533MHz		
 VIDEO INTERFACES	Up to 24 bit Parallel	 POWERSUPPLY	+ 3,3V DC
 VIDEO RESOLUTION	Up to WXGA (1366x768)	 OPERATING SYSTEM	Linux, MQX, FreeRTOS
 MASS STORAGE	512 MB Nand Flash	 OPERATING TEMPERATURE*	-40; +85 industrial Industrial (-40°C to 105°C Tj)
 NETWORKING	10/100 Ethernet interface	 DIMENSIONS	25 x 25 mm

* Valid for all components except CPU. Customer shall consider junction temperature for CPU. Temperature will widely depend on application. Specific cooling solutions could be necessary for the final system.