









MicroGEA STM32MP15

MicroGEA STM32MP1 is based on the new STM32MP157 processor from ST® equipped with a dual-core Cortex® -A7 and a Cortex-M4. This 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 (25 x 25 mm).



yocto
PROJECT

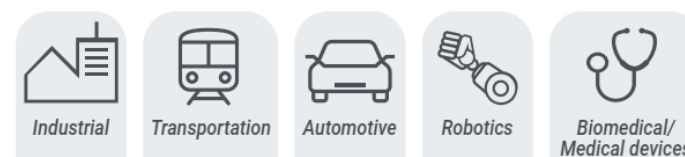
FEATURES







	CPU	ST® STM32MP157(A/D)AC
	CORES	Dual-Core Cortex-A7@650/800MHz and Cortex M4@200MHz
	MEMORY	Up to 1GB DDR3L1066
	GRAPHICS	3D GPU: Vivante® - OpenGL® ES 2.0 Graphics Up to 26 Mtriangle/s, 133 Mpixel/s
	VIDEO INTERFACES	Up to 24 bit Parallel
	USB	<ul style="list-style-type: none"> • 2x USB HOST 2.0 • 1x USB OTG 2.0
	AUDIO	<ul style="list-style-type: none"> • I²S interface
	NETWORKING	1x 10/100 Ethernet interfaces

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.

APPLICATIONS



	MASS STORAGE	<ul style="list-style-type: none"> • 512MB Nand Flash
	PERIPHERAL INTERFACES	I²C, SPI, PWM, UART, CAN Bus, SDIO, JTAG, ADC
	POWER SUPPLY	+3,3V DC
	OPERATING SYSTEM	<ul style="list-style-type: none"> • Linux • Yocto
	OPERATING TEMPERATURE*	Industrial qualified
	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.

BLOCK DIAGRAM

