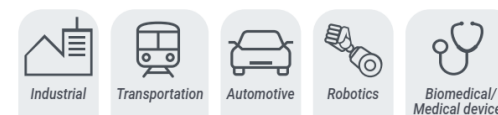# ENGICAM
EMBEDDED SOLUTIONS

MicroGEA STM32MP15

MicroGEA STM32MP1 is powered by the latest STM32MP157 processor from ST®, featuring a dual-core Cortex®-A7 and a Cortex-M4. This advanced module delivers exceptional performance, real-time capabilities, and energy efficiency. It includes a comprehensive array of peripherals, all within a remarkably compact form factor (25 x 25 mm).

HIGHLIGHTS

- 32-bit Dual Core Arm Cortex A7 @ 650 MHz
- 32-bit Arm® Cortex M4 @ 200 MHz
- FPU/MPU, optimized for high performance energy efficient processing.

APPLICATIONS

Industrial | Transportation | Automotive | Robotics | Biomedical/Medical devices

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	• 2x USB HOST 2.0 • 1x USB OTG 2.0	
AUDIO	• I²S interface	
NETWORKING	1x 10/100 Ethernet interfaces	

MASS STORAGE	• 512MB Nand Flash
PERIPHERAL INTERFACES	I²C, SPI, PWM, UART, CAN Bus, SDIO, JTAG, ADC
POWER SUPPLY	+3,3V DC
OPERATING SYSTEM	• 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.

Authorized Partner

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