









MicroGEA STM32MP15

MicroGEA STM32MP15 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 (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	• 2x USB HOST 2.0 • 1x USB OTG 2.0
 AUDIO	• I ² S 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	• 512MB Nand Flash
 PERIPHERAL INTERFACES	I ² C, 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.

BLOCK DIAGRAM

