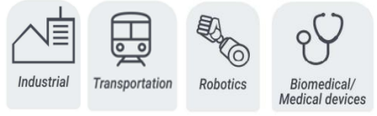
MicroGEA STM32MP13

Engicam presents the new MicroGEA STM32MP13 based on the latest ST® processor equipped with Arm® Cortex®-A7 up to 1GHz. The module offers energy-efficient performances and is designed to provide full capabilities both in high-end wearables, and other low-power embedded and consumer applications.

HIGHLIGHTS

- Very small form factor
- Low power consumption
- Dual Ethernet network interfaces
- SOM EOL at least 10 Years (based on ST Longevity program)

APPLICATIONS



FEATURES

CPU	ST® STM32MP135
CORES	Arm Cortex-A7 up to 1 GHz
MEMORY	Up to 1GB LPDDR3L
GRAPHICS	Two layers (incl. 1 secured) with programmable color LUT
VIDEO INTERFACES	LCD-TFT controller, up to 24-bit up to WXGA (1366 × 768) @60 fps
USB	• 1x USB HOST 2.0 • 1x USB OTG 2.0
AUDIO	• SAI interface
NETWORKING	1x 10/100 Ethernet interfaces 1x RMII (option)
MASS STORAGE	• 4GB eMMC drive soldered on-board
PERIPHERAL INTERFACES	UART, I²C, SPI, CAN, SDIO, GPIOs
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.

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EMBEDDED SOLUTIONS

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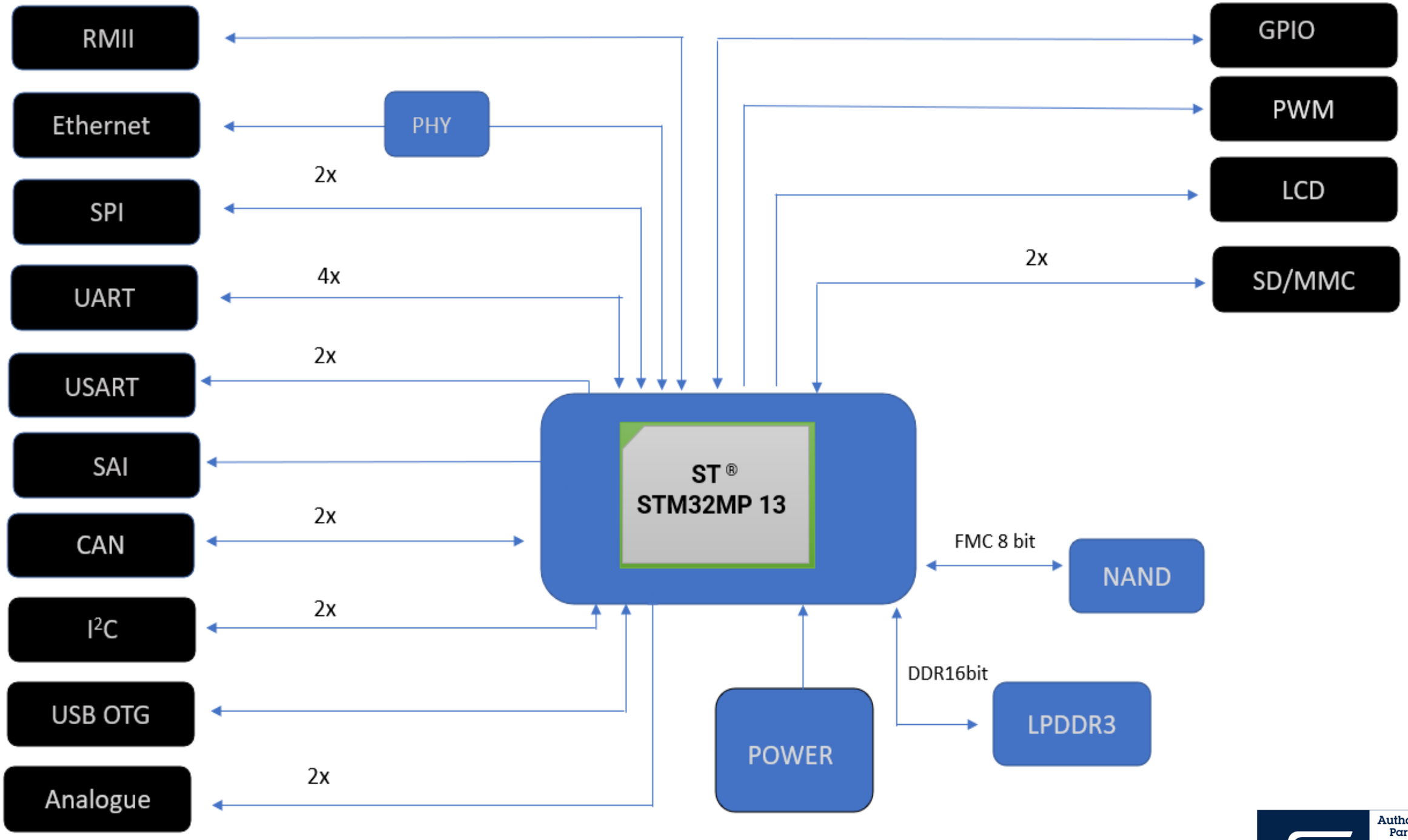
BLOCK DIAGRAM



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