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MicroGEA STM32MP15

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 (25 x 25 mm).

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

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.

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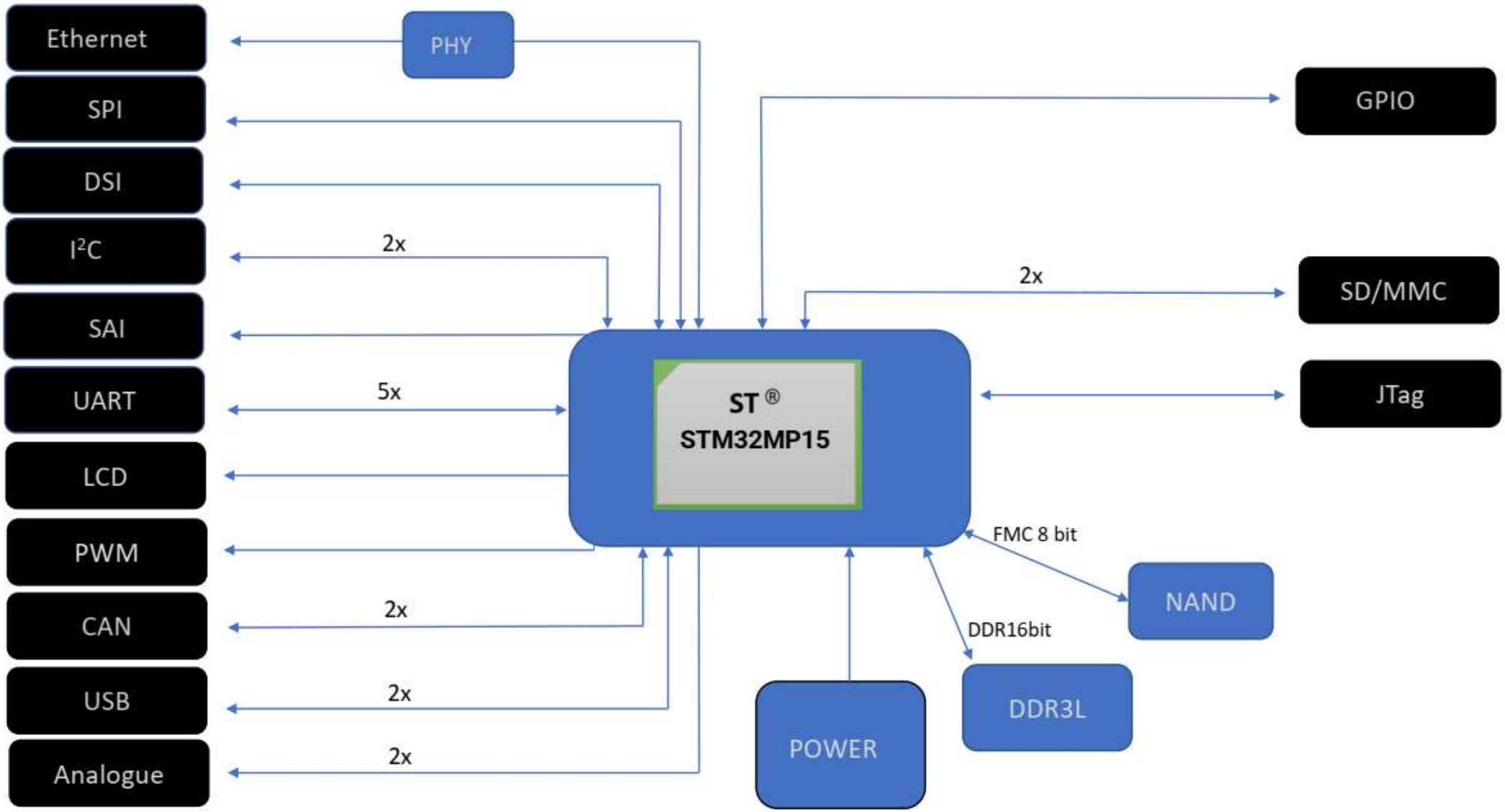
BLOCK DIAGRAM



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