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EMBEDDED SOLUTIONS

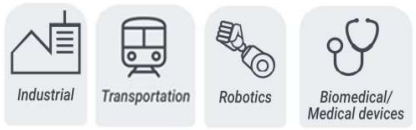
i.Core STM32MP1

i.Core STM32MP1 is based on the new STM32MP157 processor from ST® equipped with a dualcore Cortex®-A7 and Cortex-M4. The new module offers very high performance, real-time capabilities, and low-power operation. The wide range of peripherals makes this SOM suitable for many different applications.

HIGHLIGHTS

- Powerful dual core Cortex A7+Cortex M4
- Low Power Consumption
- Suitable for a fan-less application with high-end

APPLICATIONS



FEATURES

CPU	ST® STM32MP157
CORES	Dual-Core Cortex-A7 @650/800MHz and Cortex M4@200MHz
MEMORY	Up to 1GB LPDDR3L
GRAPHICS	3D GPU: Vivante®-OpenGL® ES2.0 – Up to 26 Mtriangle/s, 133 Mpixel/s LCD-TFT controller, up to 24-bit // RGB888 – up to WXGA (1366x768) @60 fps – Two layers with programmable colour LUT MIPI® DSI data lanes up to 1GHz each
VIDEO INTERFACES	• LCD-TFT controller, up to 24-bit up to parallel RGB888 • MIPI®DSI 2 data lanes up to 1GHz each • LVDS Single channel via MIPI-DSI bridge
VIDEO PROCESSING	Up to WXGA (1366x768) @60fps
AUDIO	• I²S interface
NETWORKING	LAN 10/100 Ethernet interfaces
USB	• 1x USB HOST 2.0 • 1x USB OTG 2.0
MASS STORAGE	• 512MB expandible Nand Flash • 4GB eMMC drive soldered on-board
PERIPHERAL INTERFACES	UART, I²C, SPI, CAN Bus, PWM, SDIO i/f, JTAG i/f
POWER SUPPLY	+5V DC
OPERATING SYSTEM	• Linux • Yocto
OPERATING TEMPERATURE*	Industrial and consumer qualified
DIMENSIONS	67,6 x 32,1 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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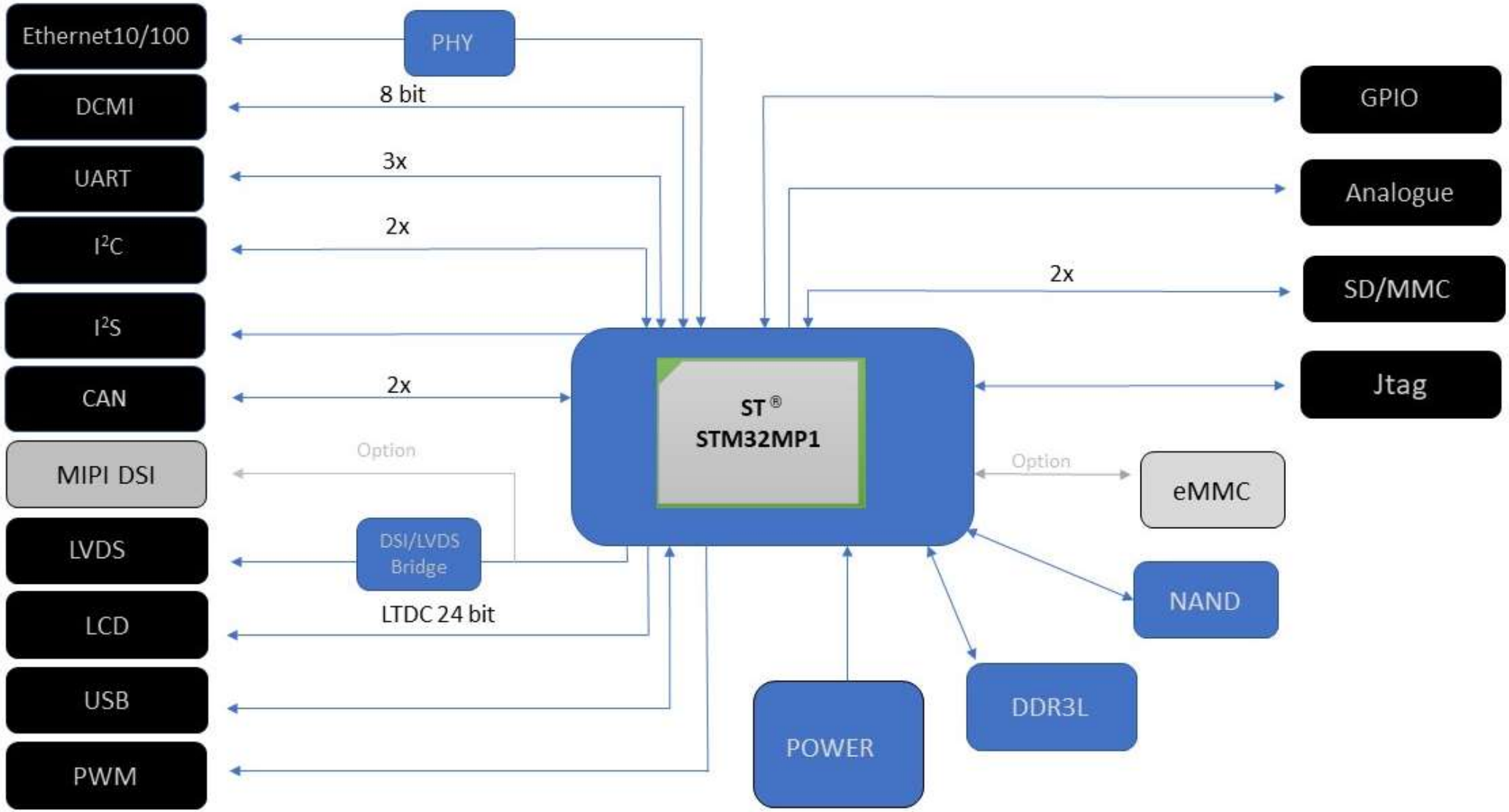
BLOCK DIAGRAM



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