ENGICAM
EMBEDDED SOLUTIONS

i.Core MX6

Based on NXP™ i.MX 6Solo, i.MX 6DualLite, i.MX 6Dual or i.MX 6Quad processor. The NXP i.MX 6 series of applications processors combines scalable platforms with broad levels of integration and power-efficient processing capabilities particularly suited to multimedia applications. Optimized for high-performance energy-efficient processing in general embedded, automotive, industrial, and consumer applications. Powerful graphics acceleration. Advanced hardware-enabled security.

HIGHLIGHTS

- Scalable from single to quad core ARM Cortex-A9
- Multi-display driving capability
- Suitable for fan-less application with high-end graphics performances

APPLICATIONS

Industrial · Digital Signage Infotainment · Transportation · Automotive · Avionics · Surveillance · Robotics · Biomedical/ Medical devices · Gaming

FEATURES

CPU	NXP® i.MX 6 S/DL/D/Q
CORES	Up to 4x Cortex-A9 @800MHz
MEMORY	Up to 2GB DDR3-1066
GRAPHICS	Up to 4 individual displays VPU, 2x IPU, OpenGL ES 2.0, BitBlt, GPUVG, ASRC
VIDEO INTERFACES	• Up to 2 parallel • Up to 2LVDS • HDMI 1.4 port • 8 bit CSI input
VIDEO PROCESSING	• Up to 1920x1200
AUDIO	• I²S interface
NETWORKING	1x 10/100 Ethernet interfaces

PCIE	1x PCIe 2.0
USB	2x USB 2.0
MASS STORAGE	SATA (Dual/Quad only), Nand Flash
PERIPHERAL INTERFACES	UART, I²C, SPI, JTAG, CAN, SDIO, PWM
POWER SUPPLY	+5V DC
OPERATING SYSTEM	• Linux • Yocto • Android
OPERATING TEMPERATURE*	• Exdended Commercial • Industrial qualified
DIMENSIONS	32.1 x 67,6 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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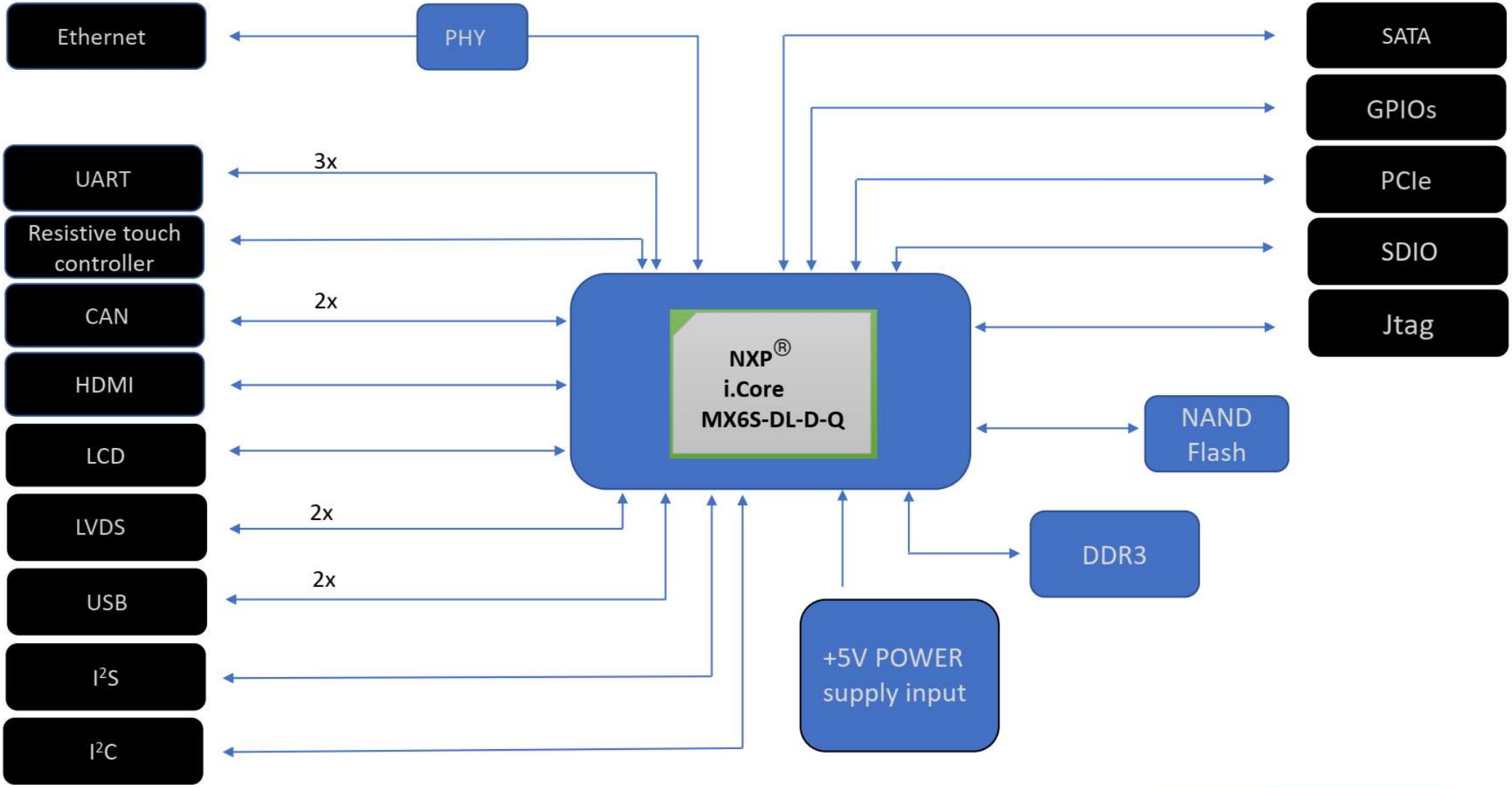
BLOCK DIAGRAM



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