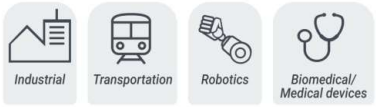
SmarCore MX8X

Engicam introduces the new SmarCore MX8X module family connectivity, multimedia and industrial HMI applications. The new module will be based on the versatile SMARC 2.1 pinout and will be compatible with the others SMARC 2.1 compliant module.

HIGHLIGHTS

- Virtualization
- Vision
- 3D Graphics
- 4K Video

APPLICATIONS



FEATURES

Windows 10

CPU	• NXP® i.MX8X
CORES	Up to 4x Cortex® -A35 @1.2GHz & Cortex-M4F@266MHz
MEMORY	2GB LPDDR4 expandible up to 4GB
GRAPHICS	• 1x 2 or 4-Shader, OpenGL ES 3.0 or 3.1 • Vulkan® VX Extensions
VIDEO INTERFACES	• MIPI-DSI 2x 4-Lanes • LVDS 2x 1channel or 1x dual channels • MIPI-CSI 4 lanes INPUT
VIDEO PROCESSING	• 4Kp30 (h.265, h.264, VP8) dec • 1080p60 (h.264, VP8) enc
AUDIO	• I²S interface
NETWORKING	• 2x GB Ethernet interface

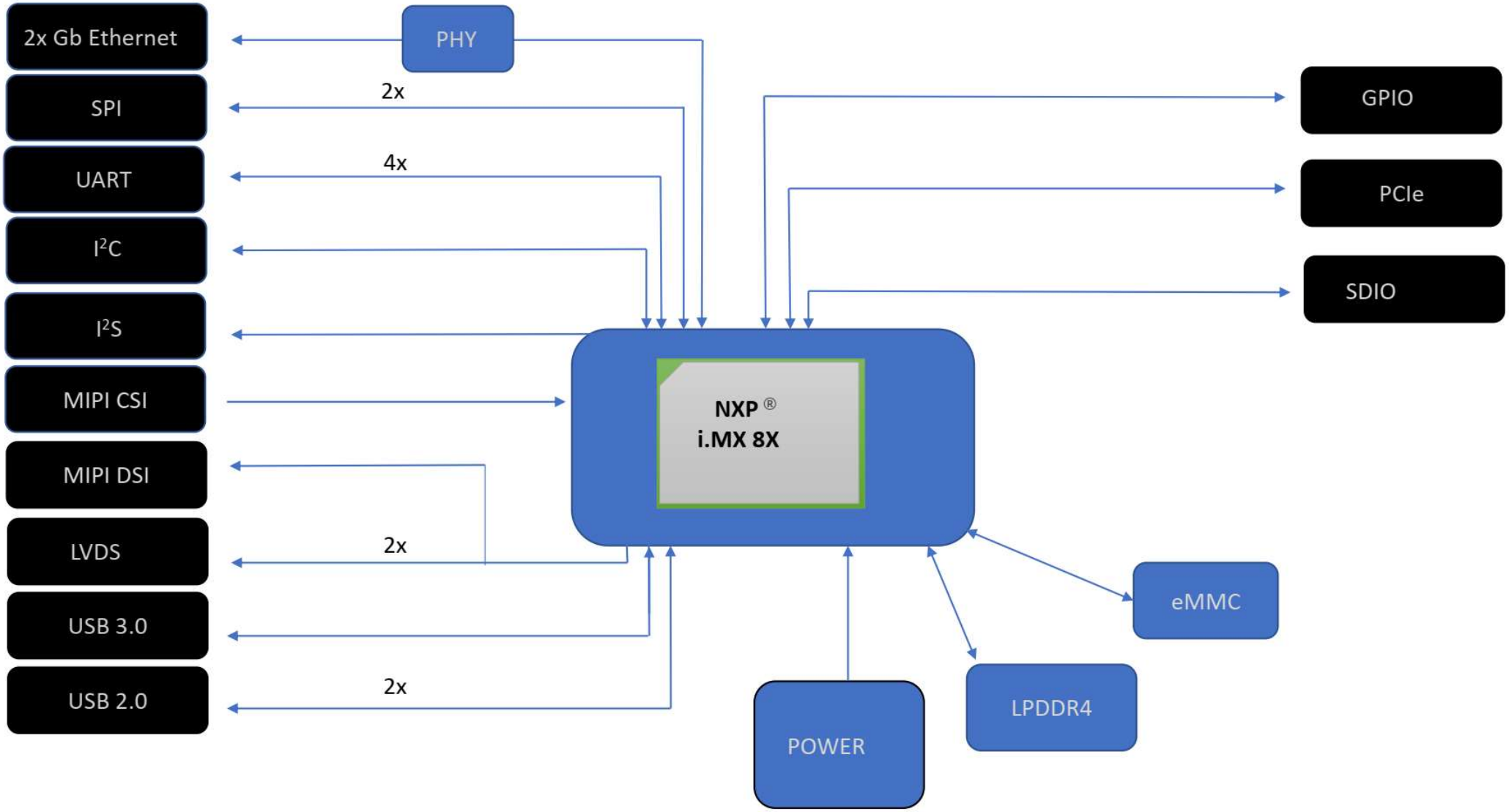
USB	• USB HOST 3.0 • 2x USB OTG 2.0
MASS STORAGE	• Starting from 4GB eMMC drive soldered on-board
PERIPHERAL INTERFACES	UART, I²C, 3x CAN/CAN FD, SDIO, SPI, GPIOs, ADC, TPM 2.0 option available
PCIE	1x PCIe 3.0 1 lane
OPERATING SYSTEM	• Linux • Yocto • Android
POWER SUPPLY	+5V DC
DIMENSIONS	Standard SMARC short size module
OPERATING TEMPERATURE	Industrial and consumer qualified

NXP GOLD PARTNER

ENGICAM
EMBEDDED SOLUTIONS

SmarCore MX8X

BLOCK DIAGRAM



NXP GOLD PARTNER