









# i.Core MX8X

Engicam introduces the new i.Core MX8X system on module family for connectivity, multimedia and industrial HMI applications. The new module is based on the EDIMM versatile pinout and is compatible with the actual Engicam SOM product line



## FEATURES











 CPU	<ul style="list-style-type: none"> <li>NXP® i.MX 8X</li> </ul>
 CORES	Up to quad Cortex® -A35 @1.2GHz & Cortex-M4F@266MHz
 MEMORY	Up to 2GB LPDDR4
 GRAPHICS	<ul style="list-style-type: none"> <li>1x 2 or 4-Shader, OpenGL ES 3.0 or 3.1</li> <li>Vulkan® VX Extensions</li> </ul>
 VIDEO INTERFACES	<ul style="list-style-type: none"> <li>MIPI-DSI 2x 4-Lanes</li> <li>LVDS 2x 1channel or 1x dual channels</li> <li>MIPI-CSI 4 lanes INPUT</li> </ul>
 VIDEO PROCESSING	<ul style="list-style-type: none"> <li>4Kp30 (h.265, h.264, VP8) dec</li> <li>1080p60 (h.264, VP8) enc</li> </ul>
 AUDIO	<ul style="list-style-type: none"> <li>I<sup>2</sup>S interface</li> </ul>
 NETWORKING	<ul style="list-style-type: none"> <li>2x GB Ethernet interface</li> </ul>

## HIGHLIGHTS

- Standard EDIMM 2.0
- Suitable for safety-certifiable and efficient performance requirements

## APPLICATIONS



 USB	<ul style="list-style-type: none"> <li>USB HOST 3.0</li> <li>USB OTG 2.0</li> </ul>
 MASS STORAGE	<ul style="list-style-type: none"> <li>Starting from 4GB expandible eMMC</li> </ul>
 PERIPHERAL INTERFACES	UART, I <sup>2</sup> C, CAN, SDIO, SPI, ADC
 PCIe	1x PCIe
 OPERATING SYSTEM	<ul style="list-style-type: none"> <li>Linux</li> <li>FreeRTOS</li> </ul>
 POWER SUPPLY	+5V DC
 DIMENSIONS	67,6 x 32.1 mm
 OPERATING TEMPERATURE	Industrial qualified

**BLOCK DIAGRAM**

