

miriac® MPX-i.MX95

Powerful graphics and AI with energy efficiency and security

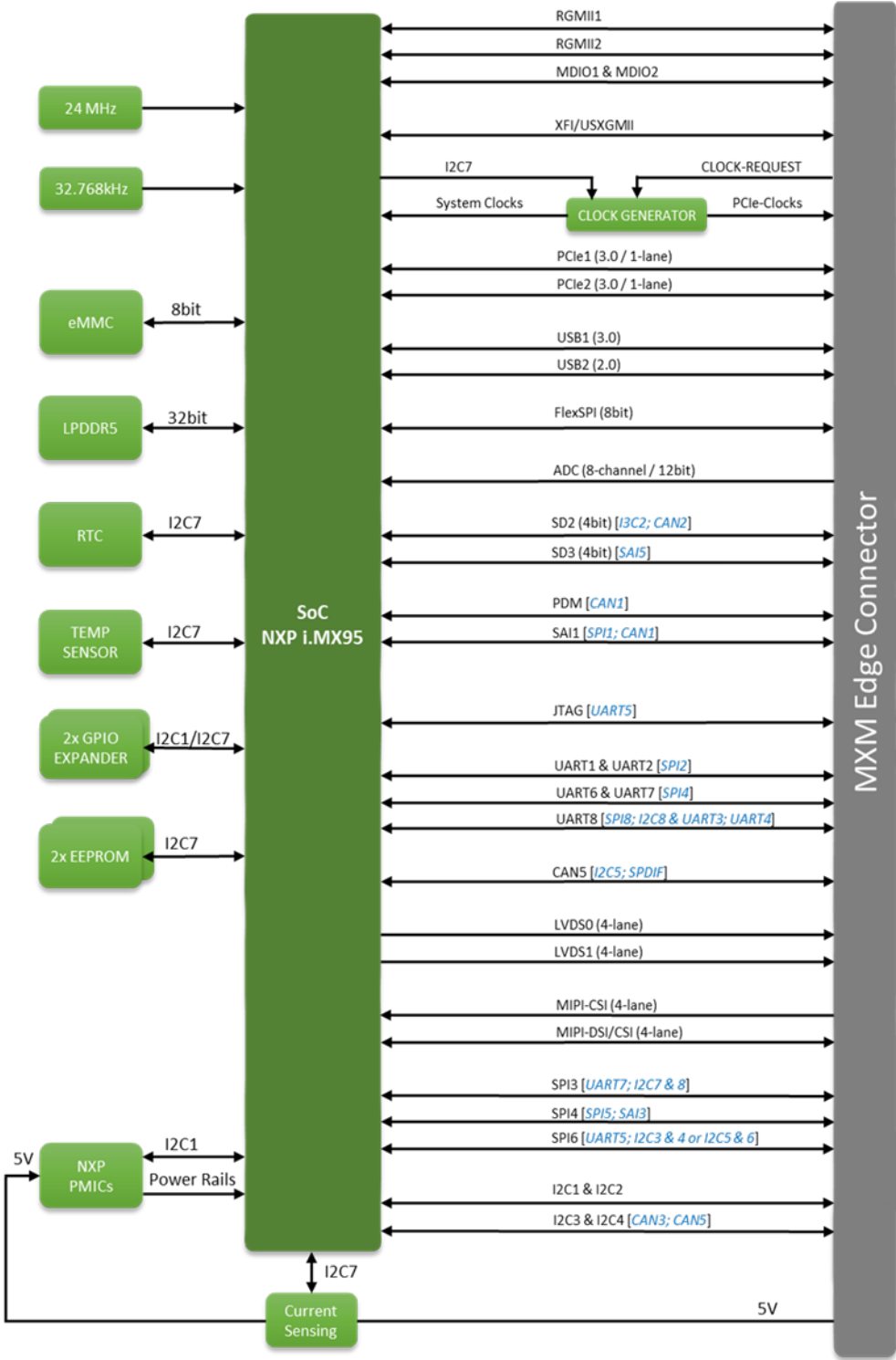
- 6 Arm® Cortex®-A55 cores at up to 2,0 GHz, 1 Arm® Cortex®-M7 up to 800MHz
- 1 Arm® Cortex®-M33 up to 333MHz Arm v8-M supporting Trustzone-M
- 1 Arm® Mali™ 3D GPU 310



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The MPX-iMX95 is based on multiple heterogeneous processing units including up to 6 cores 2,0 GHz Arm® Cortex®-A55 plus two independent real-time co-processors: a 800MHz Arm® Cortex®-M7 and an Arm® Cortex®-M33 up to 333MHz. It offers high-speed data processing alongside high-performance real-time and safety/low-power uses.





Legend: [InterfacesXY] are typical multiplexing options V1.0 / 7.11.2024

Features

CPU	
Architecture	Arm® Cortex®-A55
Processor	NXP® i.MX95 CPU: 6 Arm® Cortex®-A55 cores at up to 2,0 GHz 1 Arm® Cortex®-M7 @ 800MHz 1 Arm® Cortex®-M33 @ 333MHz
DRAM	16 GByte LPDDR5 (x32) up to 6.4GT/s (w/ Inline ECC)

Memory	
SD Card	2x (up to) interface on connector (boot source)
Octal-Flash	1x Interface on connector (boot source)
eMMC	1x up to 64GB (Onboard boot source)
EEPROM	Yes
Graphic	
Graphic	3D GPU, OpenGL® ES 3.2, Vulkan® 1.2, OpenCL™ 3.0, 2D GPU
Ethernet	
10GbE	1x XFI/USXGMII
1GbE	2x RGMII
High Speed IO	
USB 3.0	1x
USB 2.0	1x
PCIe	2x 1-lane
IO	
ADC	1x 8ch / 12bit
I3C	1x (up to)
CAN	4x (up to)
SPI	7x (up to)
FlexSPI	1x
UART	5x (up to)
I2C	7x (up to)
Camera	
MIPI-CSI	2x á 4-lane (up to)
Audio	
PDM	1x (up to)
SAI	3x (up to)

Display

LVDS	2x á 4-lane (up to)
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MIPI-DSI	1x 4-lane (up to)
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Security / Safety

Tamper	2x
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Additional

Additional	Dev Kit available for immediate start, includes power supply, cables. Linux on SD card
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Operating Condition

Operational Temperature	-40/+85°C
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Temperature sensor	Yes
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Supply Voltage	5V
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RTC	RV-3028-C7
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Mechanical

Dimensions	82x35mm
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Connector Type	MXM3.0
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Our standard product versions offer what we consider to be the optimum configuration in terms of performance, price, usage and TDP. The product features lists specify the maximum range of functions per interface. However, not all interfaces or functions are always available in parallel. Flexible SERDES multiplexing is one of the reasons for this. In addition, we provide multiple memory expansion options and are also happy to accommodate specific customer wishes. So do not hesitate to contact us directly to discuss your desired configuration.

Take a look at related products



CRX-i.MX95