

miriac® MPX-S32Z2

Coming soon

- 8 Arm® Cortex®-R52 cores at up to 1 GHz with flexible split/lock configurations: Each Arm Cortex-R52 core includes Arm Neon™ SIMD technology Lockstep Arm® Cortex®-M33 System Manager core
- DSP/ML processor (25 GFLOPS)
- 2 GB 16-bit soldered LPDDR4 RAM at 1600 MT/s

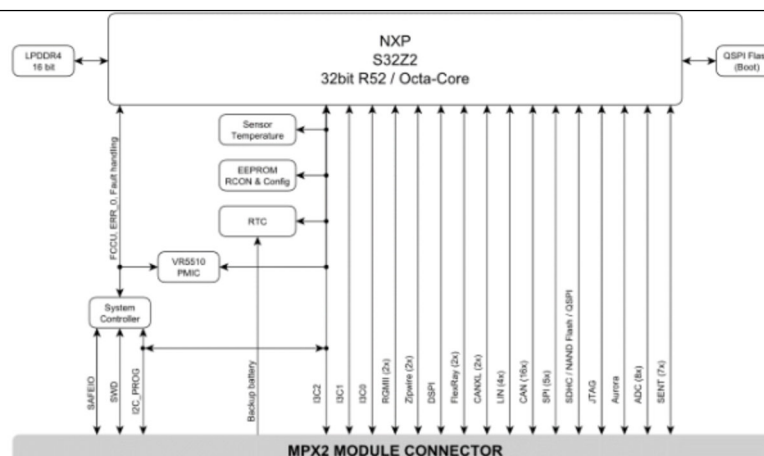


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Find out more about our miriac® MPX-S32Z2 below. More information on request.



Block Diagrams (Preliminary)



CPU

Architecture Arm® Cortex®-R52

Processor NXP® S32Z2 CPU:

- 8 Arm® Cortex®-R52 cores at up to 1 GHz with flexible split/lock configurations
- Each Arm Cortex-R52 core includes Arm Neon™
- SIMD technology Lockstep Arm® Cortex®-M33 SystemManager core
- DSP/ML processor (25 GFLOPS)

DRAM 2 GB 16-bit soldered LPDDR4 RAM at 1600 MT/s

Memory

Flash 512 MB QSPI Flash

Flash Card Interface for external SD-card (only Interface NOT on board)

Boot Flash Boot select: QSPI / eMMC / SDHC (only Interface NOT on board)

eMMC Interface for external and eMMC (only Interface NOT on board)

Ethernet

RGMII 2x 1GbE

IO

I3C 3x (with I2C support)

CAN 16x

CAN XL 2x

Zipwire 2x

SENT 7x

SPI 5x

FlexRay 2x

LIN 4x

Analog Inputs (ADCs) 8x

JTAG Debug Interface Yes

Aurora Interface Yes

Security / Safety

Security Hardware Security Engine (HSE) for secure boot and accelerated security services

Safety μ controller to monitor voltages

Security / Safety

Security	Hardware Security Engine (HSE) for secure boot and accelerated security services
Safety	μ controller to monitor voltages

Operating Condition

Power Supply Voltage	Single DC power input (+9 V to +30 V)
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Mechanical

Dimensions	82 mm x 50 mm
Connector Type	MXM3.0

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.