

miriac® MPX2041 (EOL)

System on Module based on NXP® QorIQ® P2041 CPU

- up to 4 GB DDR3 memory, 64-bit with EEC, soldered
- 10x @ 5 GHz SerDes lanes offer a completely new performance range for demanding I/O functions
- two 208 Pin Zero Force Connectors, that make all I/O and bus signals available to the carrier board
- High precision RTC
- Power: 3.3 V DC single supply, 24 A core voltage regulator



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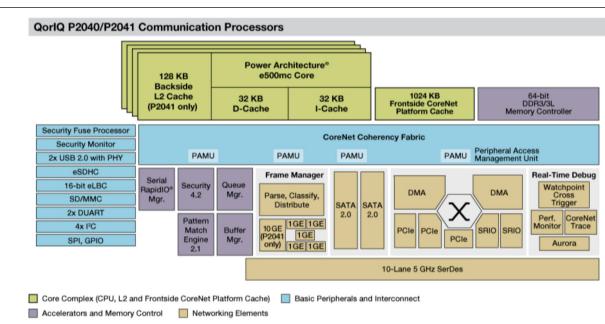
The miriac® MPX2041 CPU Module is the first Quad Core QorlQ® based SoM by MicroSys. The four e500mc CPU cores in combination with the integrated hardware hypervisor and CoerNet fabric allow completely new designs for control applications. The CoreNet fabric eliminates internal data exchange bottlenecks between the CPU cores. This offers higher performance and safer operation on application level.

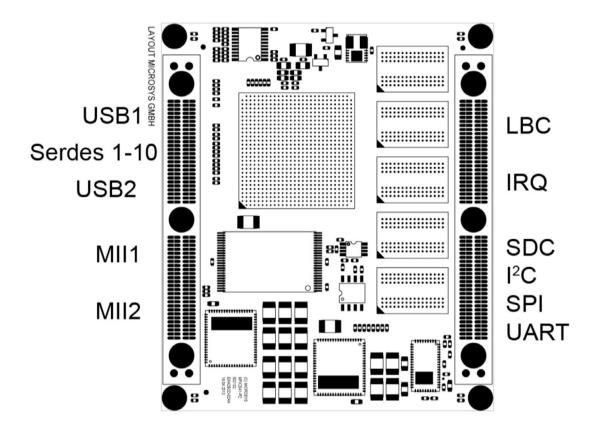






Block Diagrams





Features

CPU	
Architecture	PowerPC
Processor	NXP® QorlQ® P2041 CPU 4x e500mc cores up to 1.5 GHz, 32 kB I/D Cache and 128 kB L2 Cache per core 1 MB CoreNet platform cache with EEC
Memory	

Flash up to 512 MB NAND Flash

Flash Card 1x SD/MMC

High Speed IO

high speed interfaces supporting various multiplexed options by 10 SerDes lanes @ 5 GHz, e.g.

2x SATA

SerDes lanes 3x PCI Express®

2x SRIO or

4x SGMII

USB 2.0 2x USB 2.0

Operating Condition

Temperature optional: ext. temp.

Mechanical

Formfactor

MPX-1, 77 mm x 66 mm

Software / Additional

Software Support

- Linux
- Microware OS-9
- VxWorks
- MicroC/OS-II
- QNX
- others are avialable on request

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.



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