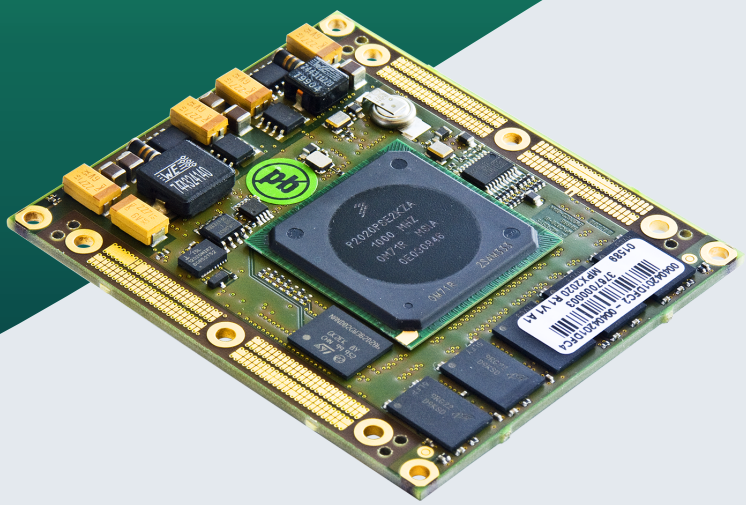
MicroSys
Creating Embedded Systems

SoMs Power Architecture

miriac® MPX2020 (EOL)

System on Module based on NXP® QorIQ® P2020 CPU



Highlights

- up to 2 GB DDR2 memory, soldered, optional: with EEC
- up to four SerDes up to 3.125 GHz multiplexed across controllers
- two 208 Pin Zero Force Connectors, that make all I/O and bus signals available to the carrier board
- High precision RTC
- Scaling from a single core at 533 MHz (P1011) to a dual core at 1.2 GHz (P2020)

NXP Gold Partner

Product Description

The miriac® MPX2020 CPU Module is the first of a series of QorIQ® based products. The P2020 combines dual Power Architecture® e500v2 processor cores with system logic required for networking, wireless infrastructure and telecommunications applications.

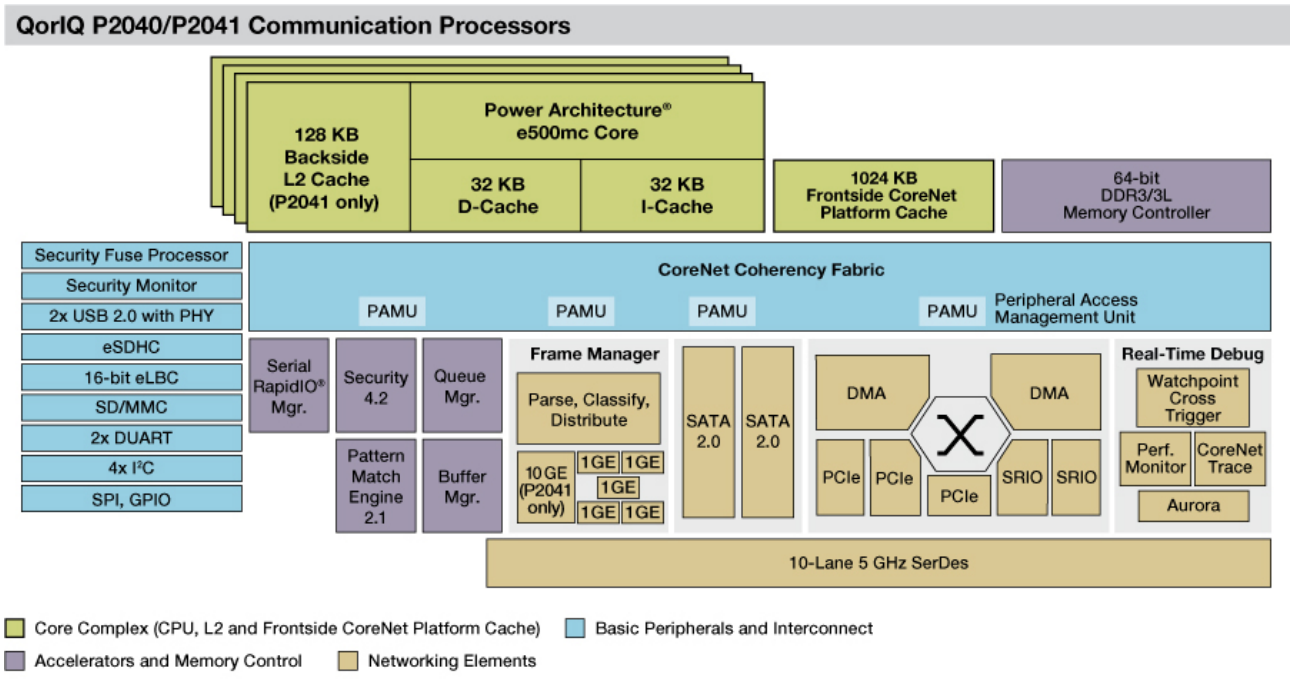
Features

CPU	
Architecture:	PowerPC
Memory	
Flash:	up to 512 MB NAND Flash
Flash Card:	1x SD
High Speed IO	
SerDes lanes:	up to four SerDes up to 3.125 GHz multiplexed across controllers, e.g. - 3x PCI Express® - 2x SRIO or - 2x SGMII
USB 2.0:	1x 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

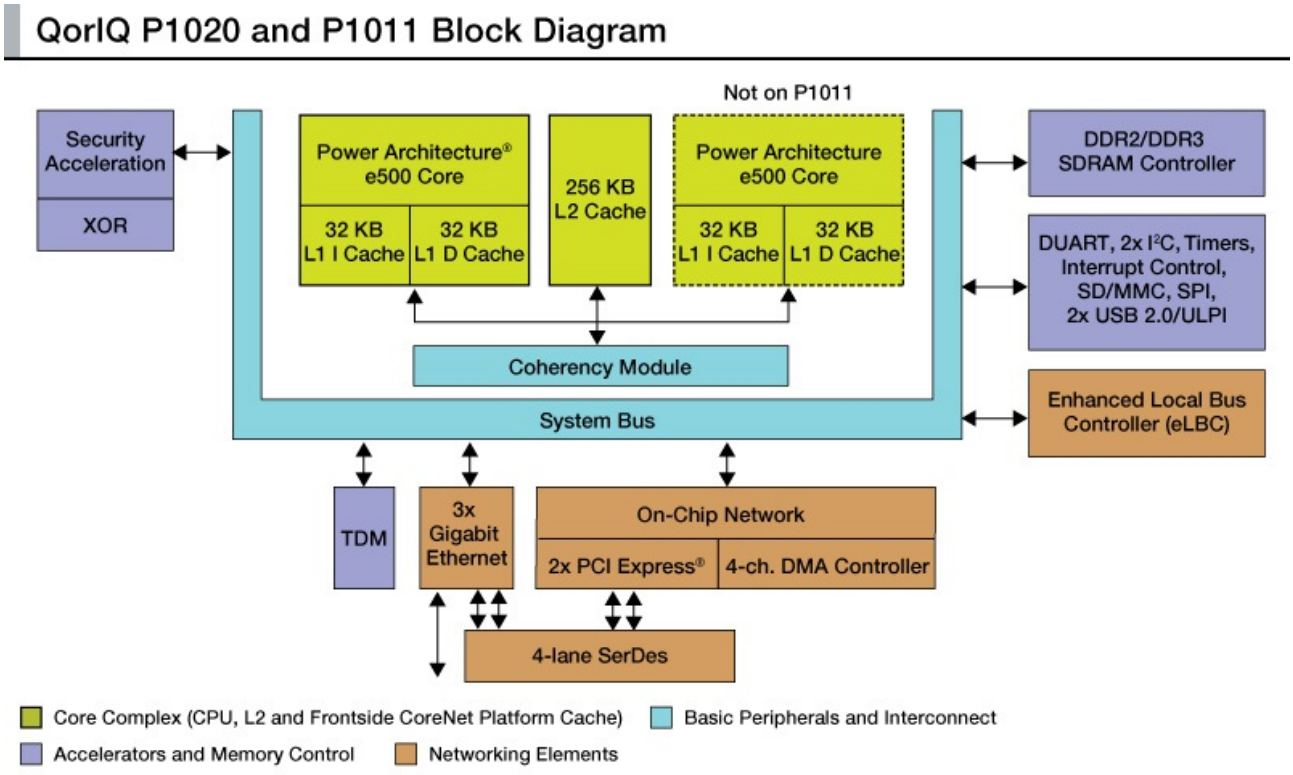
General Note:

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.

Block Diagrams



NXP®_P2020_2010 Block Diagram



NXP®_P2020_2010 Block Diagram

Related Products

Name	Description	Image
miriac® SBC2020 (EOL)		

MicroSys
Creating Embedded Systems

Mühlweg 1
82054 Sauerlach
Germany

Sales: +49 8104 801-130
E-Mail: info@microsys.de
www.microsys.de