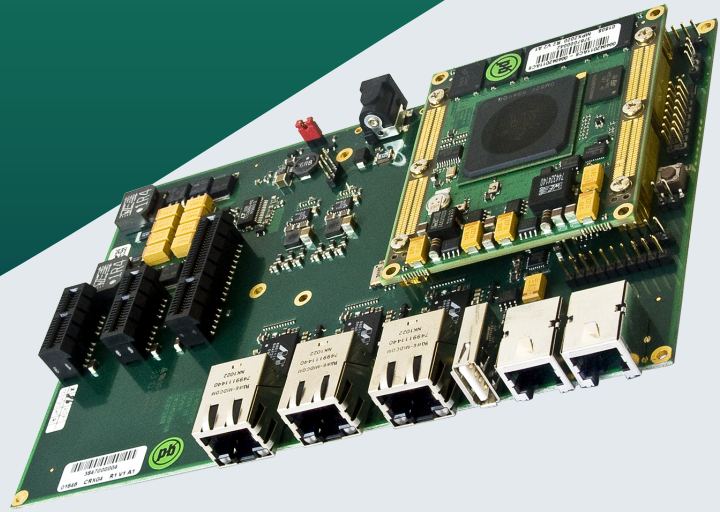**MicroSys**
Creating Embedded Systems

SBC Power Architecture

miriac® SBC1011

Single Board Computer based on NXP® QorIQ® P1011

Highlights

- Up to 1 GB soldered DDR2 memory

- Two 208 Pin Zero Force Connectors, that make all I/O and bus signals available to the carrier board

- The P1011 processor provides single core solutions for the 533 MHz to 800 MHz performance range, along with advanced security and a rich set of interfaces.

NXP   Linux   yocto PROJECT

NXP
Gold
Partner

Product Description

The miriac® SBC1011 Single Board Computer is a member of a family of Freescale QorIQ® P2/P1 series based complete system solutions by MicroSys. The single board computer is a fast means to implement rugged designs with the aim to withstand extreme and harsh environments. In addition the SBC1011 offers a low power consumption envelope with its single e500v2 core at a very efficient price performance ratio.
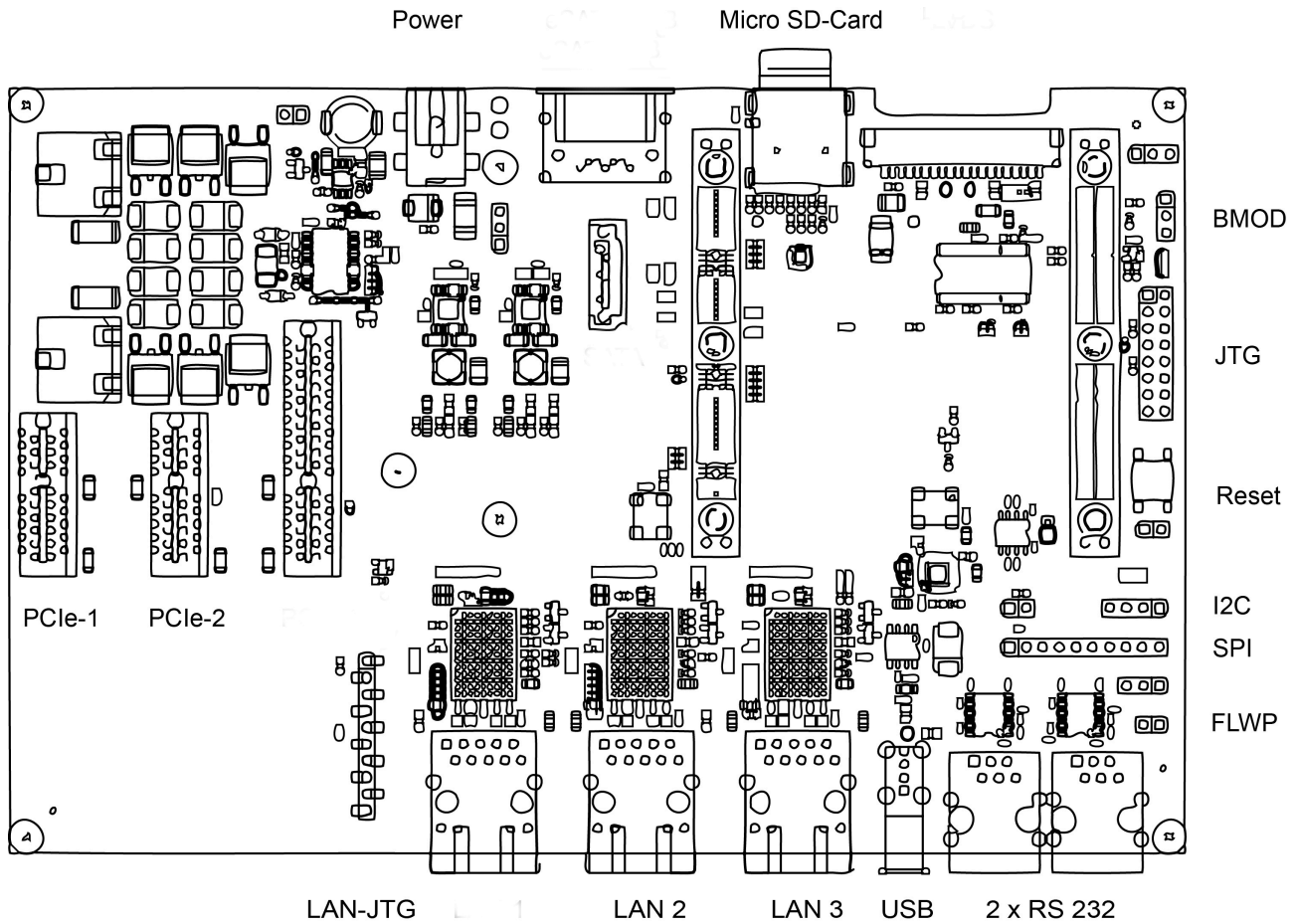
Features

CPU	
Architecture:	PowerPC
Processor:	NXP® QorIQ® P1011 CPU, single 500 v2 core@533 - 800 MHz, 256 kB L2 Cache with ECC, also configurable as SRAM and stashing memory
Memory	
Flash:	up to 512 MB NAND Flash
Flash Card:	1x SD Card Slot
High Speed IO	
USB 2.0:	1x USB 2.0
Operating Condition	
Power Supply Voltage:	Single +12 V power input
Software / Additional	
Software Support:	Linux
	Microware OS-9
	VxWorks
	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

Power   Micro SD-Card

BMOD

JTG

Reset

I2C

SPI

FLWP

PCIe-1   PCIe-2

LAN-JTG   LAN 2   LAN 3   USB   2 x RS 232

miriac® SBC1011

Order Info

Name	Code	Description	Status
miriac® SBC1011	839603	QorIQ® e500v2, 0.8 GHz, 512 MB DDR w ECC, 4 MB NOR Flash, 256 MB NAND Flash, 0 °C to 70 °C, w/o SEC	EOL
	839611	miriac® SBC1011 development kit, incl. order #839603, Linux BSP, accessories	EOL

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