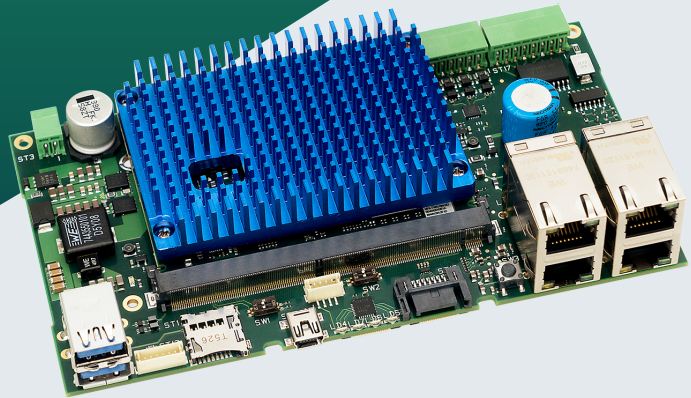SBC Power Architecture

miriac® SBC-T1024

Single Board Computer based on NXP® QorIQ® T1024

Highlights

- up to 8 GB 64-bit DDR4 RAM at 1600MTps, soldered, ECC optional

- hybrid 32-bit mode to support legacy software

- temperature sensor

- All on board supply voltages are monitored by a separate µ-controller.

Product Description

The miriac® SBC-T1024 Single Board Computer is a member of a family of NXP® QorIQ® T10xx series based complete system solutions by MicroSys. NXP's T1040/20 and T1042/22 CPUs are the midrange class of the more powerful T2081 pin compatible CPU device.
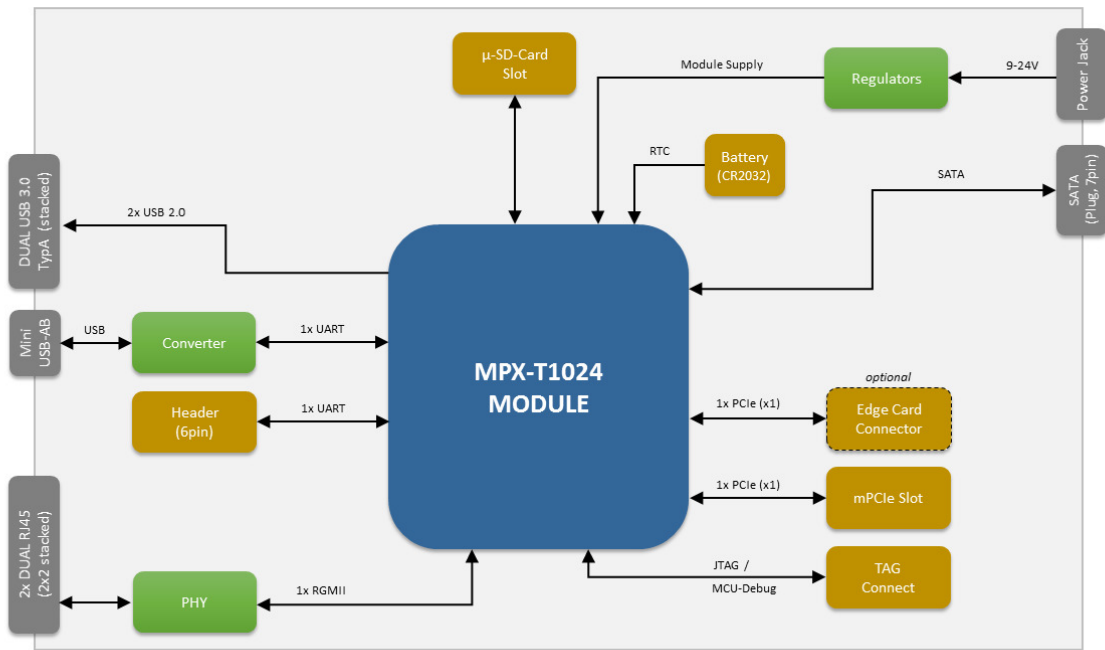
Features

CPU	
Architecture:	PowerPC
Processor:	NXP® QorIQ® T1024
Memory	
Flash:	up to 2 GB SLC NAND Flash (soldered)
Flash Card:	2x microSD Card slot
EEPROM:	16 kB
Graphic	
Graphics Controller:	12-bit Display Interface
High Speed IO	
USB 2.0:	2x USB2.0 Host/Client OTG support
SATA:	1x SATA
Operating Condition	
Power Supply Voltage:	Single +7 - +24 V power input
Mechanical	
Dimensions:	b:86 mm, l:156 mm, h:30 mm
Software / Additional	
Software Support:	Linux
	Microware OS-9
	others 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

miriac® SBC-T1024

Order Info

Name	Code	Description	Status
Development Kit basic for miriac® MPX-T1024	8543	miriac® MPX-T1024 CRX05 incl.BSP and accessories	active

Related Products

Name	Description	Image
miriac® MPX-T1024		
CRX05		

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