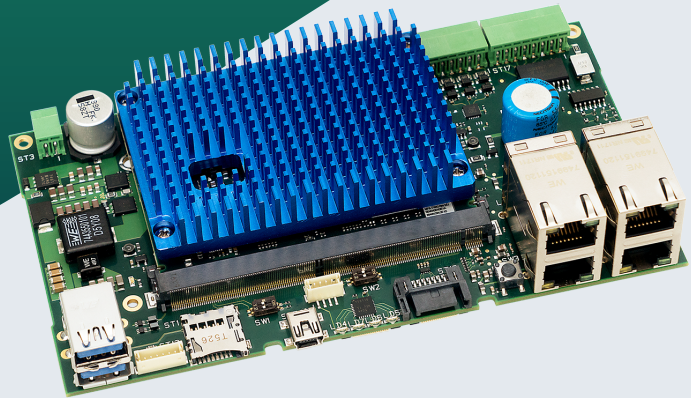![MicroSys — Creating Embedded Systems]

SBC Power Architecture

miriac® SBC-T1042

Single Board Computer based on NXP® QorIQ® T1042

Highlights

- up to 8GB 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.

NXP Gold Partner

Product Description

The miriac® SBC-T1042 Single Board Computer is a member of a family of NXP® QorIQ® T104x 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.
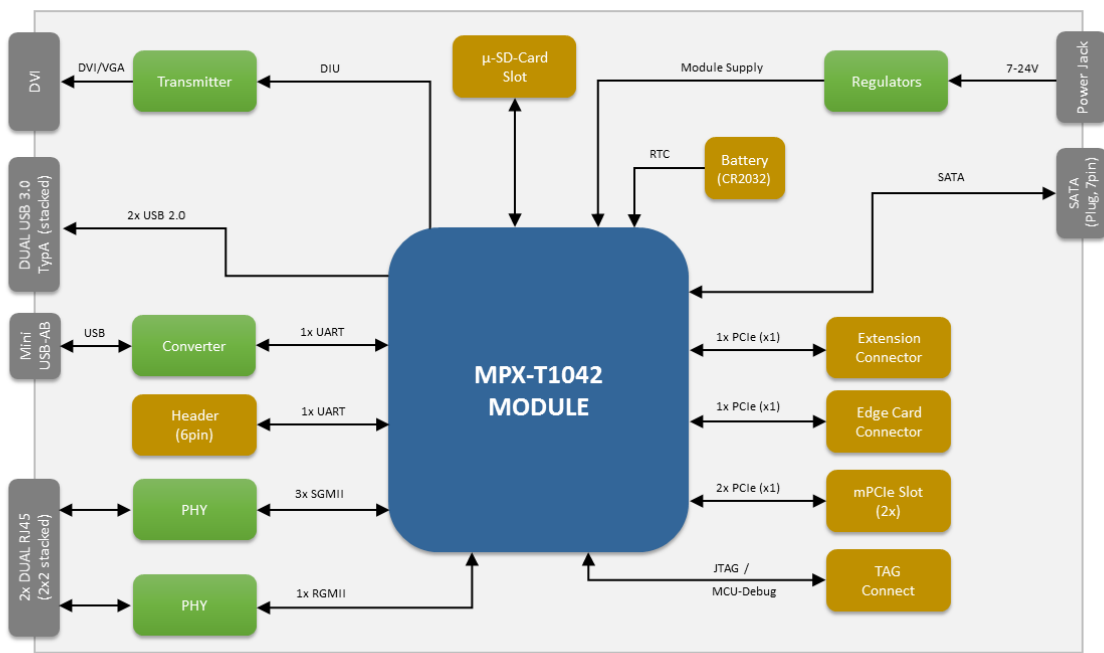
Features

CPU	
Architecture:	PowerPC
Processor:	NXP® QorIQ®T1042
Memory	
Flash:	up to 4GB SLC NAND Flash (soldered)
Flash Card:	1x microSD Card slot
EEPROM:	16kB
Graphic	
Graphics Controller:	12 Bit Display Interface
LCD Interface:	1x DVI-I
High Speed IO	
USB 2.0:	2x USB2.0 Host/Client OTG support, 1x USB to UART (debugging)
SATA:	1x SATA
Operating Condition	
Power Supply Voltage:	Single +7 - +24 V power input
Temperature:	0 °C to 70 °C
Optional Extended Temperature:	-40 °C to 85 °C
Mechanical	
Dimensions:	b:86mm, l:156mm, h:30mm
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

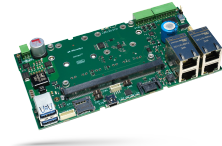SBC-T1042: Version 1.1.0 – 2016-04-25

miriac® SBC-T1042

Order Info

Name	Code	Description	Status
miriac® SBC-T1042	854301	miriac® SBC-T1042 Single Board Computer, T1042@1.2GHz SoM, 2GB DDR4 RAM, 512 MB Flash Speicher	active
miriac® SBC-T1042 Starter Kit	854310	miriac® SBC-T1042 Development Kit, includes order #854301, Linux BSP, accessories	active

Related Products

Name	Description	Image
CRX05		
miriac® MPX-T1042		

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