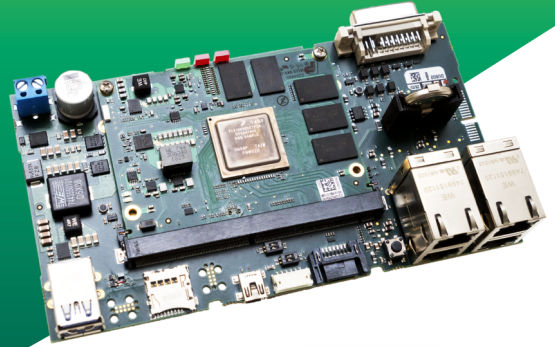


miriac® SBC-LS1088A

Single Board Computer based on NXP® QorIQ® LS1088A CPU

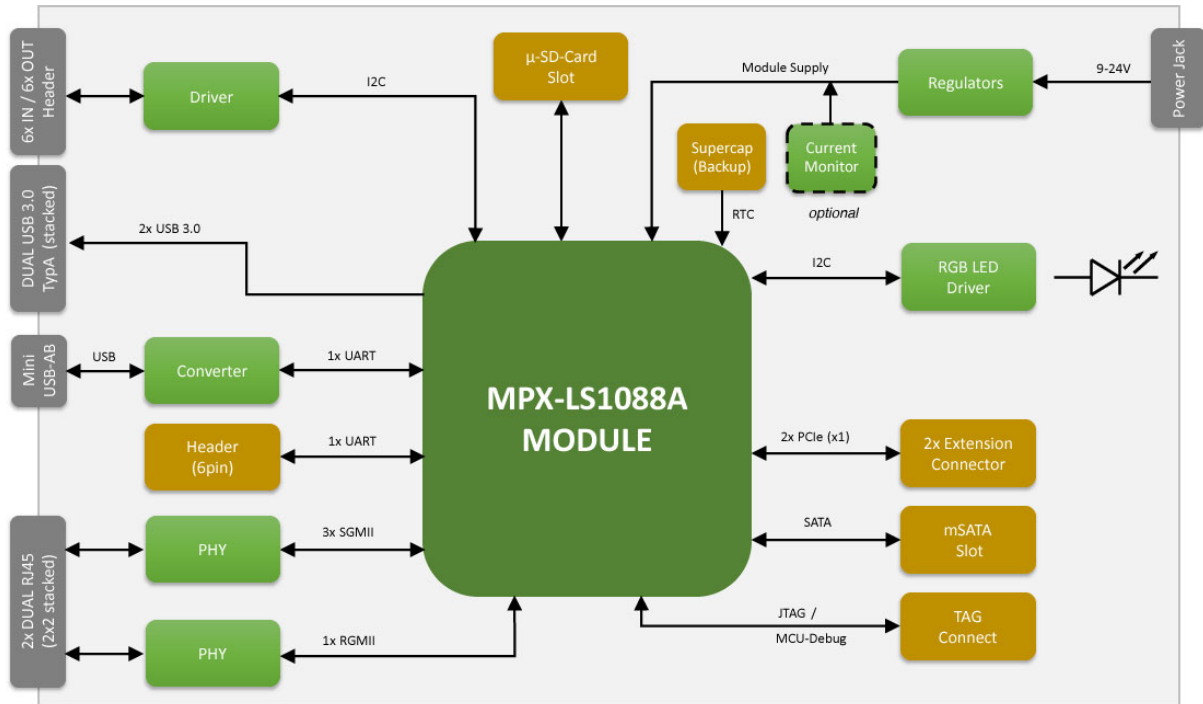
- up to 8 GB 64-bit soldered DDR4 ECC RAM at 2100MTp/s
- hybrid 32-bit mode to support legacy software
- temperature sensor
- All on board supply voltages are monitored by a separate μ -controller



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The miriac® SBC-LS1088A Single Board Computer is a NXP® QorIQ® LS1088A eight core Arm® Cortex®-A53 based complete system solution by MicroSys. NXP's LS1088A and LS1048A (four cores) 64-bit high performance CPUs offer integrated packet processing acceleration and high speed peripherals including 10 Gb Ethernet, PCIe Gen3, SATA 3.0 and USB 3.0 for a wide range of Industry 4.0 applications.





SBGLS1088A: Version 2.0-02017-09-29

Features

CPU

Architecture	Arm® Cortex®-A53
Processor	NXP® QorIQ® LS1088A CPU: 8 Arm® Cortex®-A53 64-bit cores at up to 1.6 GHz core frequency
DRAM	Up to 8 GB 32-bit DDR4 ECC RAM at 2100 MT/s

Memory

Flash	Up to 2 GB SLC NAND Flash & up to 16 MB SPI Flash
Flash Card	Yes
Boot Flash	QSPI, SD/MMC, NAND Flash

Ethernet

1GbE	4x
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High Speed IO

USB 3.0	2x
miniUSB	1x debug
PCIe	1x PCIe via extension connector, optional: 1x PCIe via edge card connector
SATA	1x

IO

UART	1x TTL
GPIOs	6x in / 6 out
JTAG Debug Interface	Yes
miniPCle	1x
mSATA	1x

Operating Condition

Power Supply Voltage	Single 9 to 24 V DC input supply voltage range
RTC	Yes
RTC-Buffer	CR2032 battery
Temperature	0 °C to 70 °C

Mechanical

Dimensions	86 mm x 157 mm
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Software / Additional

Software Support	<ul style="list-style-type: none">• Linux• VxWorks (on request)• Others (on request)
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Additional	<ul style="list-style-type: none">• Compatible variants available with QorIQ® LS1023A, LS1043A, LS1046A, LS1048A• Temperature sensor• 4x RGB LED• Dev Kit for immediate start up, e.g. power supply, cables (optional)
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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.

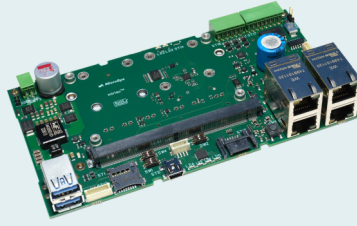
Order Info

Name	Code	Description	Status
miriac® SBC-LS1088A SBC	855902	LS1088A@up to 1.4 GHz, 4 GB DDR4 RAM, 512 MB Flash memory	active
miriac® SBC-LS1088A Starter Kit	855911	for MPX-LS1088A SoM, includes order# 855902, Linux BSP, accessories	active
Development Kit basic for miriac® MPX-LS1088A	8559	<ul style="list-style-type: none">• miriac® MPX-LS1088A• CRX05• incl.BSP and accessories	active
Development Kit pro for miriac® MPX-LS1088A	8559	<ul style="list-style-type: none">• miriac® MPX-LS1088A• CRX06-TSN• incl.BSP and accessories	active

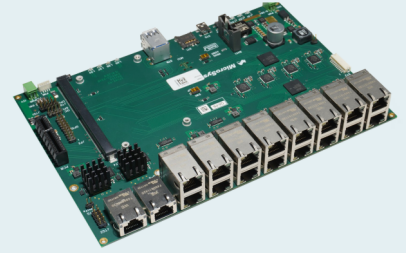
Take a look at related products



miriac® MPX-LS1088A



CRX05



CRX06-TSN