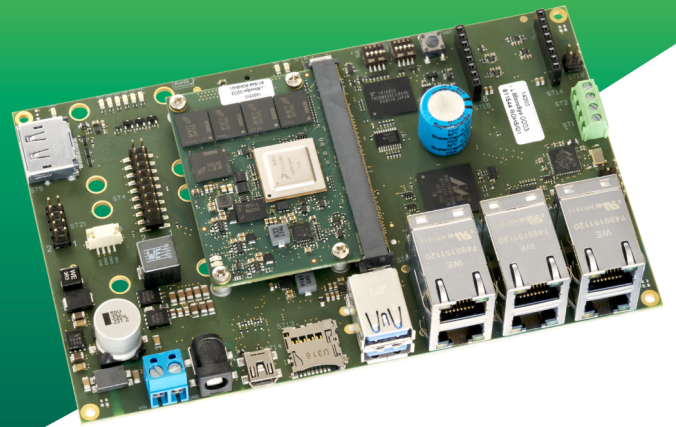


miriac® SBC-LS1028A-TSN

Single Board Computer based on NXP® QorIQ® LS1028A CPU

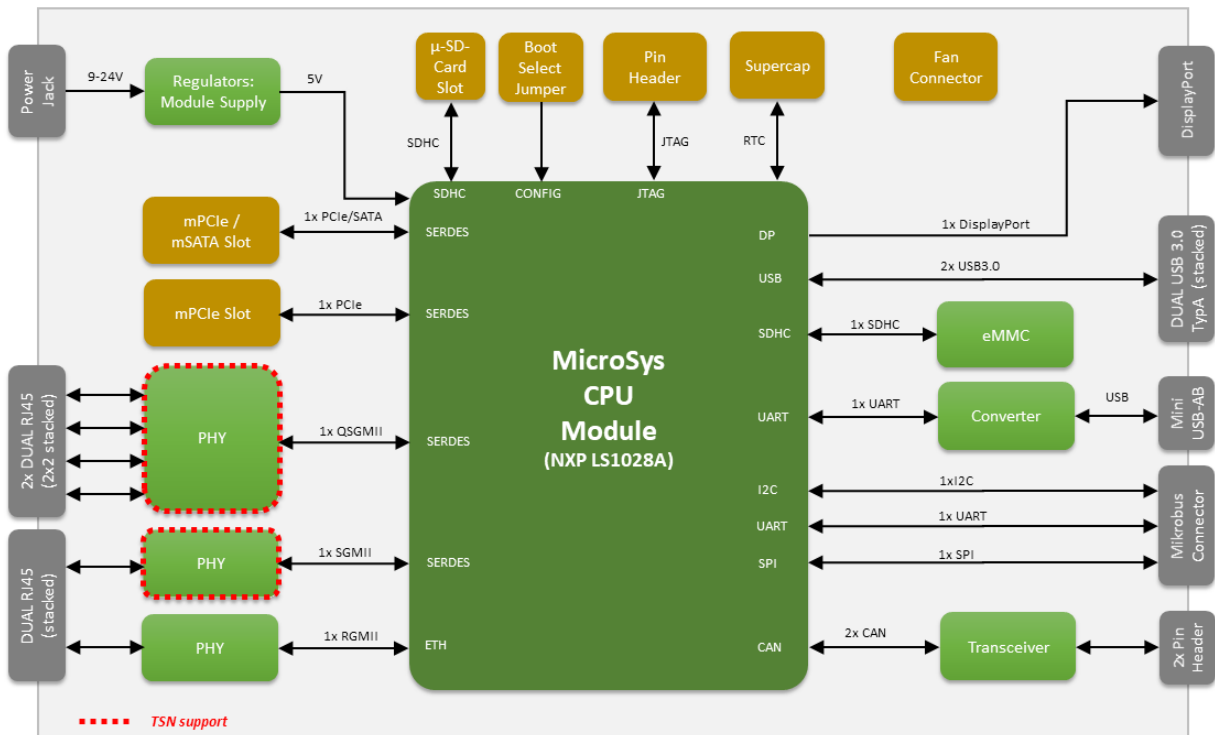
- 1x Ethernet Port 10/100/1000 Base-T
- 5x Ethernet Ports 10/100/1000 Base-T with TSN support
- NXP® QorIQ® LS1028A CPU: two Arm® Cortex®-A72 32/64-bit cores
- Display Port
- ECC memory, rich I/O infrastructure and CAN-FD interfaces



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Preliminary information, subject to change: The miriac® SBC-LS1028A-TSN platform is the combination of a miriac LS-1028A System on Module and the carrier board CRX07. The miriac® SBC-LS1028A-TSN platform combines a rich I/O infrastructure, high compute power, high speed communication interfaces with the upcoming requirement of secure real time communication over Ethernet based on TSN (Time Sensitive Networking) on a small board footprint. The integrated graphic interface complements the system functionality for versatile applications.





Features

CPU	
Architecture	Arm® Cortex®-A72
Processor	NXP® QorIQ® LS1028A CPU: 2 Arm® Cortex®-A72 64-bit cores at up to 1.5 GHz core frequency
DRAM	Up to 4 GB 32-bit DDR4 ECC RAM 1600 MT/s
Memory	
Flash	Up to 256 MB Serial NOR Flash & up to 4 GB Serial NAND Flash
Flash Card	Yes
Boot Flash	DHC, emmC, XSPI, NAND Flash
eMMC	8 GB
Graphic	
HDMI Interface	1x DisplayPort
Ethernet	
TSN / IEEE 1588	5x Gbit Eth. With TSN support on RJ45
High Speed IO	
USB 3.0	2x

miniUSB	1x debug
μUSB	1x debug
IO	
CAN FD	2x
GPIOs	Yes
JTAG Debug Interface	Yes
miniPCIe	2x
mSATA	1x

Operating Condition	
Power Supply Voltage	Single 9 to 24 V DC input supply voltage range
RTC	Yes
RTC-Buffer	Supercap
Temperature	0 °C to 70 °C
Optional Extended Temperature	-40 °C to +85 °C

Mechanical	
Dimensions	160 mm x 100 mm

Software / Additional	
Software Support	<ul style="list-style-type: none"> • Linux • VxWorks (on request) • Others (on request)
Additional	<ul style="list-style-type: none"> • Status LEDs • Watchdog • Reset button • Boot mode DIP switch • FAN connector (12V / 5V) • Compatible variants available with QorIQ LS1018A • Temperature sensor

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
Development Kit basic for miriac® MPX-LS1028A	8576	<ul style="list-style-type: none"> • miriac® MPX-LS1028A • CRX07-TSN • incl.BSP and accessories 	active

Take a look at related products

