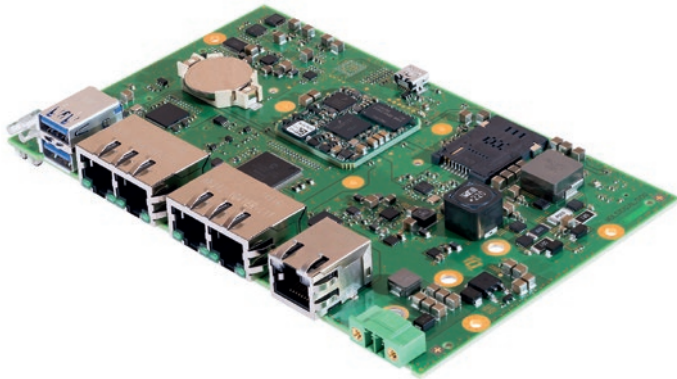


# MBLS1012AL

Arm® Family



## HIGHLIGHTS

- ▶ Extended temperature range
- ▶ High-speed communication via 5x Gbit
- ▶ Ethernet, 2x Mini PCIe and 2x USB 3.0 interface
- ▶ Low power consumption (typ. 2-3 W)
- ▶ QorIQ Trust Architecture and Arm® TrustZone®
- ▶ Packet Acceleration Engine
- ▶ Modularly expandable

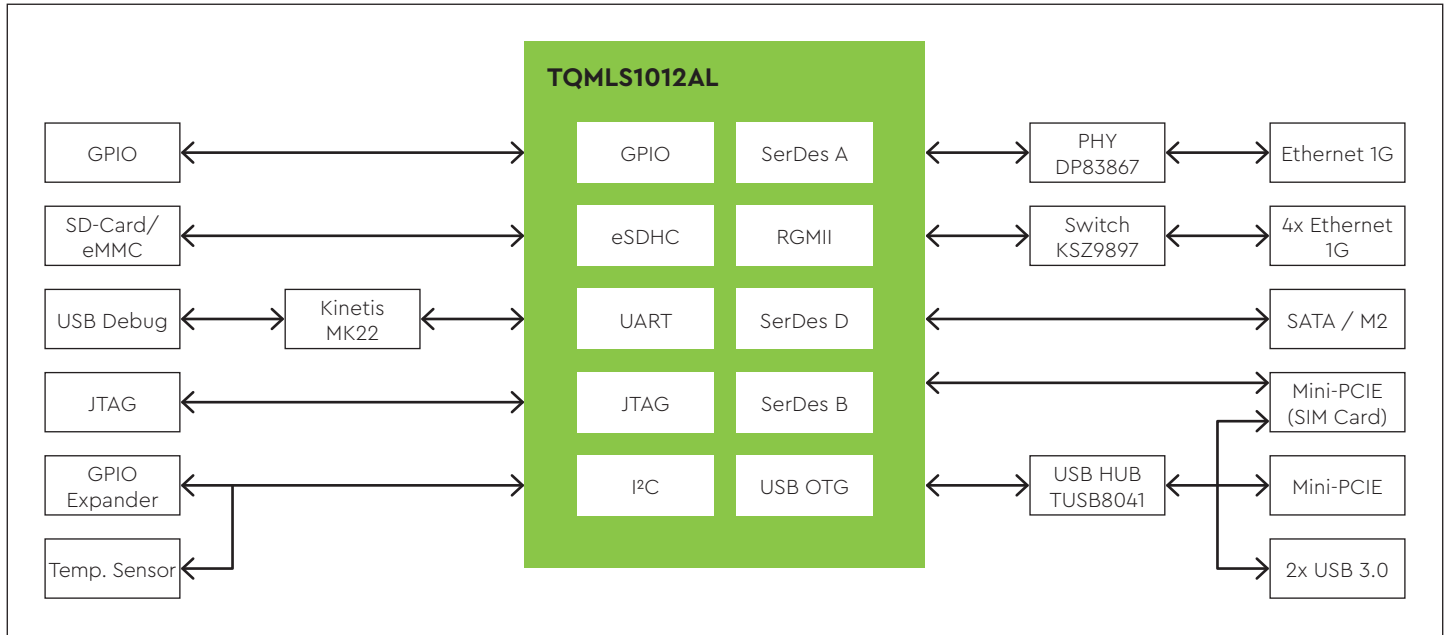
**Single Board Computer (SBC) based on TQML1012AL as a high speed platform for smart IIOT solutions.**

## TECHNICAL SPECIFICATION

<b>CPU</b>	QorIQ LS1012A
<b>Memory</b>	DDR3L-SDRAM: Up to 1 GB Quad SPI NOR: Up to 256 MB EEPROM: 0/64-kbit
<b>Interfaces</b>	1x Ethernet 10/100/1000 Mbit 4x Ethernet 10/100/1000Mbit (Ethernet Switch) 2x USB 3.0 1x SATA 3.0 (M.2) 2x Mini PCIe (1x only USB, SIM-Card) 1x SD-Card
<b>Periphery interfaces (Pin Header 2,54 mm)</b>	Up to 1x I <sup>2</sup> C Up to 1x UART Up to 5x GPIO
<b>Other</b>	Real Time Clock (RTC) Temperature sensor CPU JTAG Interface USB-Debug (RS232)
<b>Power supply</b>	16 -28 V DC

<b>Ambient conditions</b>	Standard temperature range: -25°C...+70°C Extended temperature range: -40°C...+70°C
<b>Dimensions</b>	160 mm x 100 mm
<b>Operating systems</b>	Linux

## BLOCK DIAGRAM MBL1012AL



## ORDERING INFORMATION

### MBLS1012AL-AA (Prototypes Q1/19)

MBLS1012AL-AA ,TQMLS1012A, Cortex®-A53/800 MHz, 64 MB Q-SPI NOR Flash, 512 MB DDR3L, 64-kB EEPROM, -25°C...+70°C, 2x USB 3.0, 5x ETH 10/100/1000, 2x Mini PCIe (1x only USB, SIM-Card), 1x SATA M.2, USB – Debug Interface, JTAG RTC, Temperature sensor, Reset-Button, SD-Card interface

Other configurations on request

### Starterkit STKLS1012-set

The MBL1012AL set is delivered with the TQMLS1012AL module with a Cortex®-A53 CPU from NXP. The components contained in the single board computer constitute a modular system enabling you to develop your own product ideas. To develop your own hardware you can use the certified and qualified circuit components of this platform in your own designs. For this platform, there is also a housing solution available to enable use as a complete system.

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