

LBox-LS1012AL

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

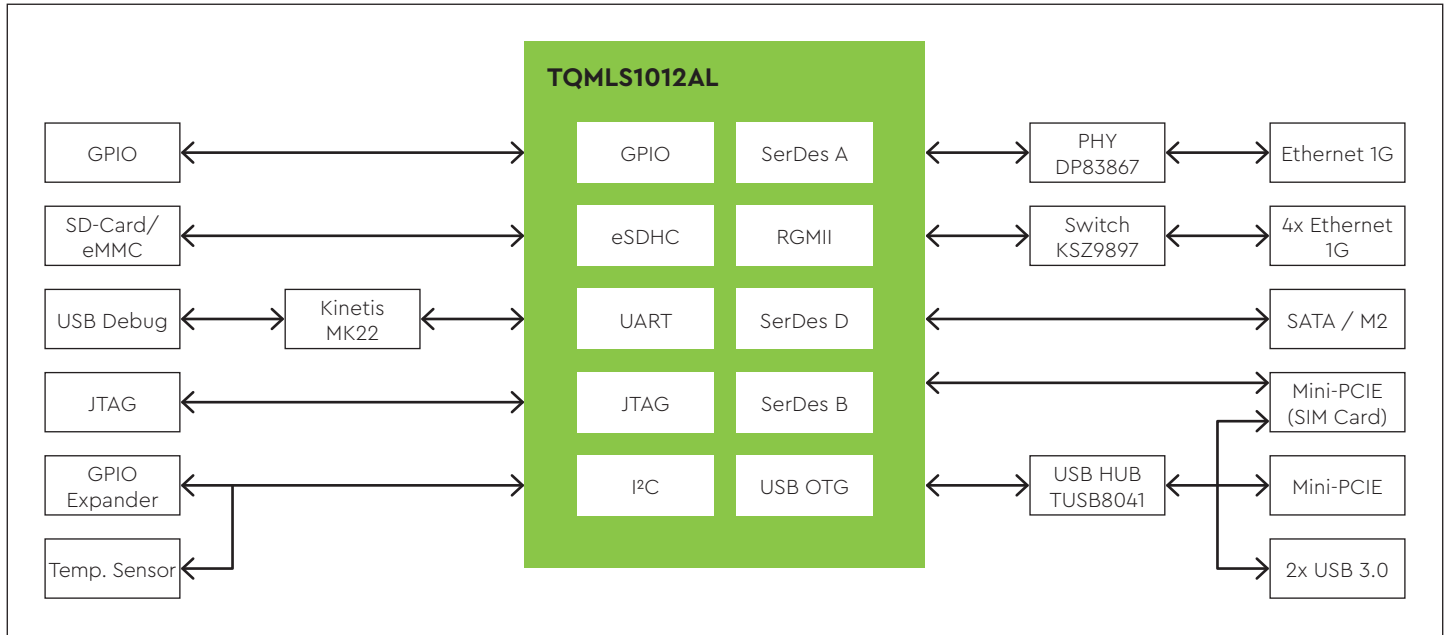
Box PC based on MBL1012AL as a high speed platform for smart IIOT solutions.

TECHNICAL SPECIFICATION

CPU	QorIQ LS1012A
Memory	DDR3L-SDRAM: Up to 1 GB Quad SPI NOR: Up to 256 MB EEPROM: 0/64-kbit
Interfaces	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
Periphery interfaces (Optional Pin Header 2.54 mm)	Up to 1x I ² C Up to 1x UART Up to 5x GPIO
Other	Real Time Clock (RTC) Temperature sensor CPU JTAG Interface USB-Debug (RS232)

Power supply	16 - 28 V DC
Ambient conditions	Standard temperature range: -25°C...+70°C Extended temperature range: -40°C...+70°C
Dimensions	170 × 103 × 35 mm
Operating systems	Linux

BLOCK DIAGRAM LBOX-LS1012AL



ORDERING INFORMATION

LBox-LS1012AL-AA
(Prototype available)

LBox-LS1012AL with MBL1012AL-AA, TQMLS1012AL-AA Cortex®-A53 / 800 MHz, 64MB NOR Flash, 256 MB DDR3L, 64kB EEPROM, 2x USB 3.0, 1x USB OTG, 4x ETH 10 / 100, 1000 (Switch), 1x ETH 10 / 100, 1000 2x Mini PCIe (1x only USB + SIM Card), USB-Debug Interface, RTC, Temperature sensor, Reset-Button, SD-Card interface, -25°C...+70°C

Other configurations on request

TQ-Systems GmbH

Mühlstraße 2 | Gut Delling | 82229 Seefeld | Germany
Tel.: +49 8153 9308-0 | info@tq-group.com | tq-group.com

tq-embedded.com