

MBa6ULxL

Arm® Family



HIGHLIGHTS

- ▶ Extended temperature range
- ▶ 2x Ethernet, 2x Mini PCIe based on USB 2.0
- ▶ Low power consumption (typically 2–3 W)
- ▶ 2x CAN galvanic isolated
- ▶ Wide voltage input range
- ▶ Modularly expandable

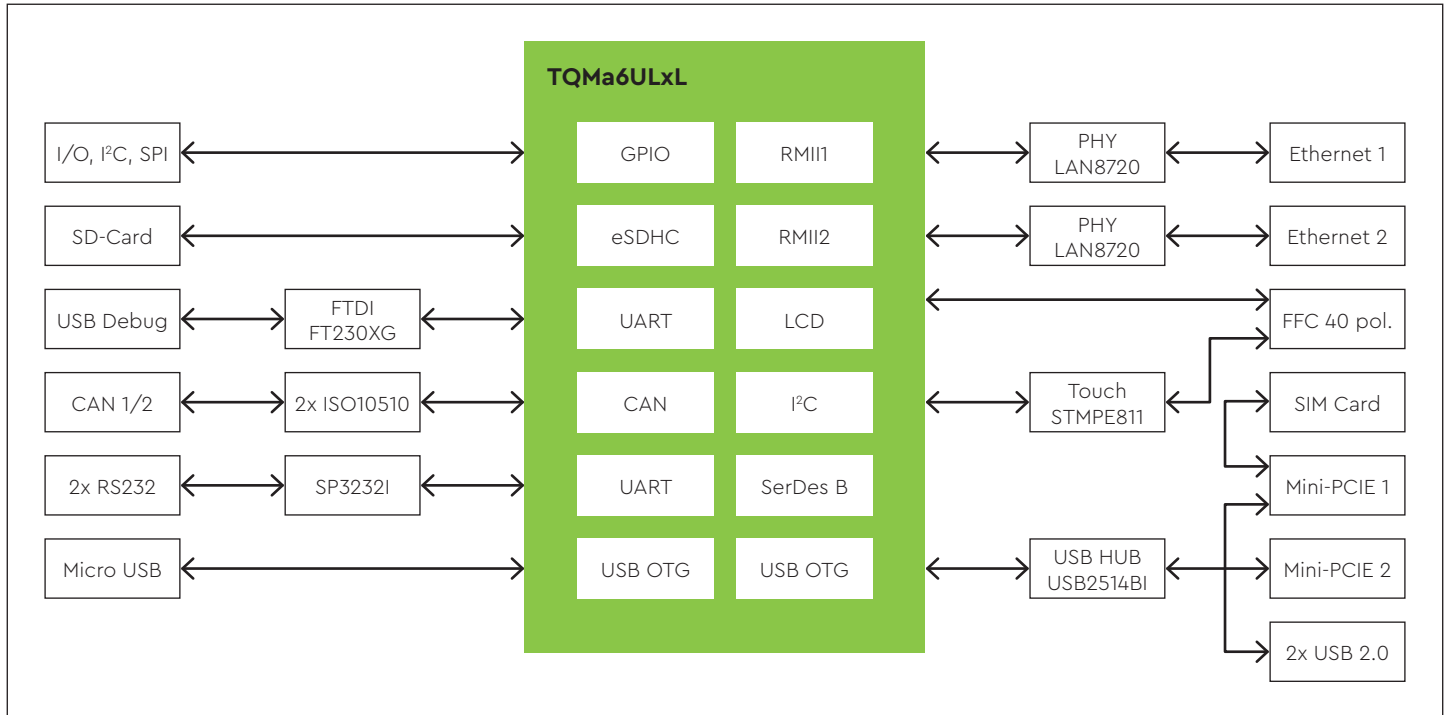
Single Board Computer (SBC) based on TQMa6ULxL as a cost-effective and smart platform.

TECHNICAL SPECIFICATION

CPU	i.MX6UL1, MX6UL2, MX6UL3, MX6ULL0, MX6ULL1, MX6ULL2
Memory	DDR3L-SDRAM: Up to 1 GB Quad SPI NOR: Up to 256 MB eMMC Up to 32 GB EEPROM: 0/64-kbit
Interfaces	2x Ethernet 10/100/Mbit 1x USB OTG 2.0 2x USB Host 2.0 Up to 2x CAN (galvanic Isolated) 2x Mini PCIe (only USB) 1x SIM Card (mini PCIe) 1x SD-Card
Periphery interfaces (Pin Header 2,54 mm)	Up to 1x I ² C Up to 2x UART RS232 Up to 8x GPIO
Other	Real Time Clock (RTC) Temperature sensor USB-Debug (RS232)
Power supply	8 – 30 V DC

Ambient conditions	Standard temperature range: -25°C...+70°C Extended temperature range: -40°C...+70°C
Dimensions	100 mm x 100 mm
Operating systems	Linux
Operating systems on request	QNX, INTEGRITY

BLOCK DIAGRAM MBA6ULXL



ORDERING INFORMATION

MBa6UL2L-AA

MBa6UL2L-AA with TQMa6UL2L-AA Cortex®-A7/528 MHz, 8GB eMMC Flash, 256 MB DDR3L, 64kB EEPROM, 2x USB 2.0, 1x USB OTG, 2x ETH 10/100, 1x Mini PCIe (only USB + SIM Card), 1x CAN, USB -Debug Interface, RTC, Temperature sensor, Reset-Button, SD-Card interface, -25°C...+70°C

MBa6UL2L-AB

MBa6UL2L-AB with TQMa6UL2L-AA Cortex®-A7/528 MHz, 8GB eMMC Flash, 256 MB DDR3L, 64kB EEPROM, 2x USB 2.0, 1x USB OTG, 2x ETH 10/100, Expansion Interface 2,54mm Pin Header (8x GPIO's, 2x RS232 (RX/TX), 2x I²C, 1x SPI), 2x Mini PCIe (only USB +1x with SIM Card), 2x CAN, USB -Debug Interface, 1x Graphic Interface (40 pol. Glyn Platform Concept), RTC, Temperature sensor, Reset-Button, SD-Card interface, -25°C...+70°C

Other configurations on request

Starterkit MBa6UL2L set

The MBa6ULxL set is delivered with a TQMa6UL2L module with a Cortex®-A7 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. Optionally, a display in the range of 3.5" - 7" can be ordered for this set. For this platform, there is also a housing solution available to enable use as a complete system.

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