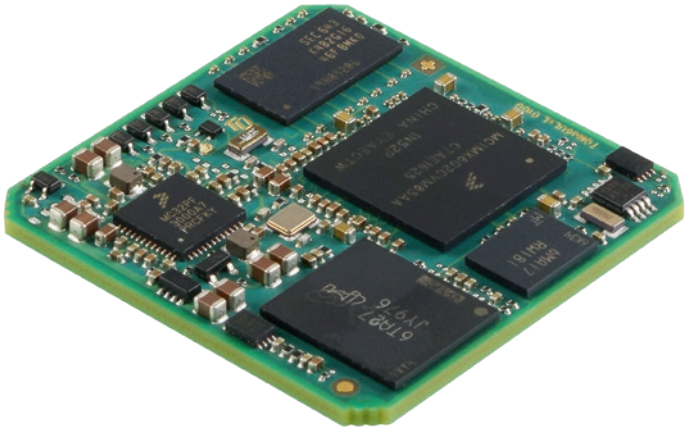
TQMa6ULxL

Arm® Family



HIGHLIGHTS

- Graphic
- Extended temperature range
- 2x Ethernet with IEE1588
- Low power consumption (typ. 1 W)
- Camera sensor interface
- Security functions
- Long term availability

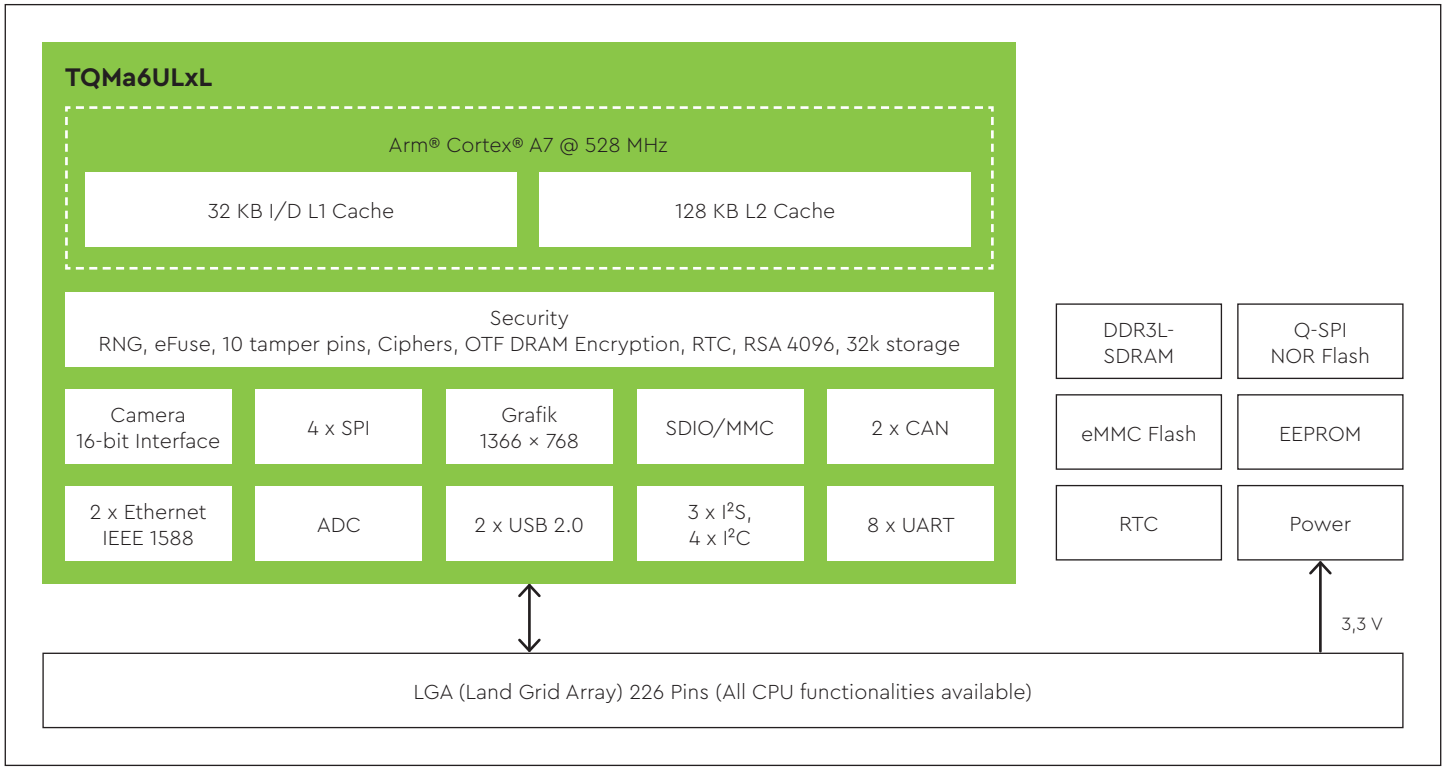
Energy-efficient and future-oriented Cortex® A7 LGA module based on i.MX6UL and i.MX6ULL.

TECHNICAL SPECIFICATION

CPU	i.MX6UL (G1, G2, G3) i.MX6ULL (Y0, Y1, Y2)
Interfaces	Up to 2x Ethernet 10/100 Mbit Up to 2x CAN Up to 2x USB 2.0 high speed OTG Up to 8x UART
Periphery interfaces	Up to 2x SDIO/MMC Up to 4x I²C Up to 4x SPI Up to 3x I²S
Graphic	LCD Interface (24-bit RGB) 1x 16-bit Camera Sensor Interface
Memory	DDR3L-SDRAM: Up to 1 GB Quad SPI NOR: Up to 256 MB Up to 32 GB eMMC Flash EEPROM: 0/64-kbit
Other	Real Time Clock (RTC) Temperature sensor CPU JTAG Interface
Power supply	3,3 V
Ambient conditions	Standard temperature range: -25°C...+85°C Extended temperature range: -40°C...+85°C

Dimensions	38 mm x 38 mm
Plug-in system	LGA (Land Grid Array) 226 Pins
Operating systems	Linux, QNX
Operating systems on request	VxWorks

BLOCK DIAGRAM TQMA6ULXL



ORDERING INFORMATION

TQMa6UL2L-AB	i.MX6UL2 (G2) / 528MHz, 8GB eMMC-Flash, 64MB Q-SPI NOR Flash, 256MB DDR3L-SDRAM, RTC, 64kB EEPROM, -40°C...+85°C
TQMa6UL2L-AA	i.MX6UL2 (G2) / 528 MHz, 8 GB eMMC Flash, 256 MB DDR3L, 64 kB EEPROM, RTC, -25°C...+85°C
TQMa6UL3L-AA	i.MX6UL3 (G3) / 528 MHz, 8 GB eMMC Flash, 256 MB DDR3L, 64 kB EEPROM, RTC, -25°C...+85°C
	Other configurations on request
STKa6ULx-AA	STKa6ULX (Eval Kit) with TQMa6ULx-AA, Cortex® A7/528 MHz, 256 MB DDR3L, 4 GB eMMC Flash, 64 kB EEPROM, RTC, 1x RS232, 1x RS485, 2x CAN 2.0 B separated, 3x USB 2.0 HOST, 1x USB 2.0 OTG, 2x ETH 10/100, LCD Port, LVDS, 1x Mini PCIe (only USB), RTC, Temperature sensor, Reset-Button, SD interface, Power supply, 4 GB SD card, Cables
Starter kit STKa6ULx set	The core of the STKa6ULx set is the TQMa6ULx module with a Cortex® A7 CPU. The components contained in the starter kit constitute a modular system enabling you to develop your own product ideas. Development of graphic interfaces can be started immediately using the prepared combination of closed display unit and starter kit that are matched to each other. To develop your own hardware you can use the certified and qualified circuit components of the starter kit in your own designs.

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