

# TQMa6ULx

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

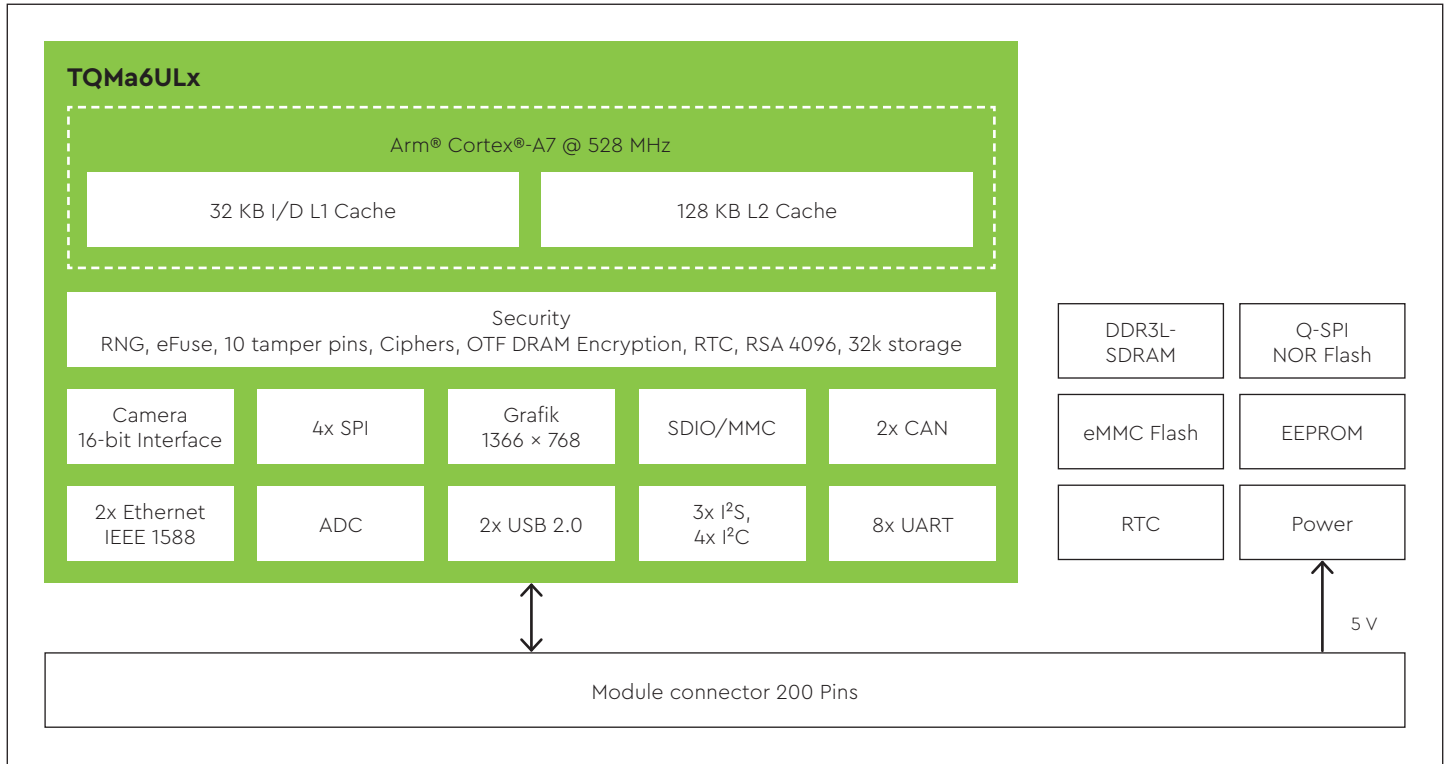
**Energy-efficient and future-oriented Cortex®-A7 module based on i.MX6UL and i.MX6ULL.**

## TECHNICAL SPECIFICATION

<b>CPU</b>	i.MX6UL (G1, G2, G3) i.MX6ULL (Y0, Y1, Y2)
<b>Interfaces</b>	Up to 2x Ethernet 10/100 Mbit Up to 2x CAN Up to 2x USB 2.0 high speed OTG Up to 8x UART
<b>Periphery interfaces</b>	Up to 2x SDIO/MMC Up to 4x I <sup>2</sup> C Up to 4x SPI Up to 3x I <sup>2</sup> S
<b>Graphic</b>	LCD Interface (24-bit RGB) 1x 16-bit Camera Sensor Interface
<b>Memory</b>	DDR3L-SDRAM: Up to 1 GB Quad SPI NOR: Up to 256 MB Up to 32 GB eMMC-Flash EEPROM: 0/64-kbit

<b>Other</b>	Real Time Clock (RTC) Temperature sensor CPU JTAG Interface
<b>Power supply</b>	5 V
<b>Ambient conditions</b>	Standard temperature range: -25°C...+85°C Extended temperature range: -40°C...+85°C
<b>Dimensions</b>	46 mm x 32 mm
<b>Plug-in system</b>	Board-to-board plug-in system 200 pins
<b>Operating systems</b>	Linux, QNX
<b>Operating systems on request</b>	VxWorks

## BLOCK DIAGRAM TQMA6ULX



## ORDERING INFORMATION

<b>TQMa6UL1-AA</b>	i.MX6UL1 (G1) / 528 MHz, 8 GB eMMC Flash, 256 MB DDR3L, 64 kB EEPROM, RTC, -25°C...+85°C
<b>TQMa6UL2-AA</b>	i.MX6UL2 (G2) / 528 MHz, 8 GB eMMC Flash, 256 MB DDR3L, 64 kB EEPROM, RTC, -25°C...+85°C
<b>TQMa6UL2-AB</b>	i.MX6UL2 (G2) / 528 MHz, 8 GB eMMC Flash, 64 MB Q-SPI NOR Flash, 256 MB DDR3L-SDRAM, RTC, 64 kB EEPROM, -40°C...+85°C
<b>TQMa6UL3-AA</b>	i.MX6UL3 (G3) / 528 MHz, 8 GB eMMC Flash, 256 MB DDR3L, 64 kB EEPROM, RTC, -25°C...+85°C
<b>TQMa6ULL2-AA</b>	i.MX6ULL2 (Y2) / 528MHz, 8 GB eMMC-Flash, 256 MB DDR3L-SDRAM, RTC, 64 kB EEPROM, -25°C...+85°C
<b>TQMa6ULL2-AB</b>	i.MX6ULL2 (Y2) / 528 MHz, 8 GB eMMC Flash, 64 MB Q-SPI NOR Flash, 512 MB DDR3L-SDRAM, RTC, 64 kB EEPROM, -40°C...+85°C

Other configurations on request

<b>STKa6ULx-AA</b>	STKa6ULx (Eval Kit) with TQMa6ULx-AA, Cortex®-A7/528 MHz, 256 MB DDR3L, 8 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
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