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

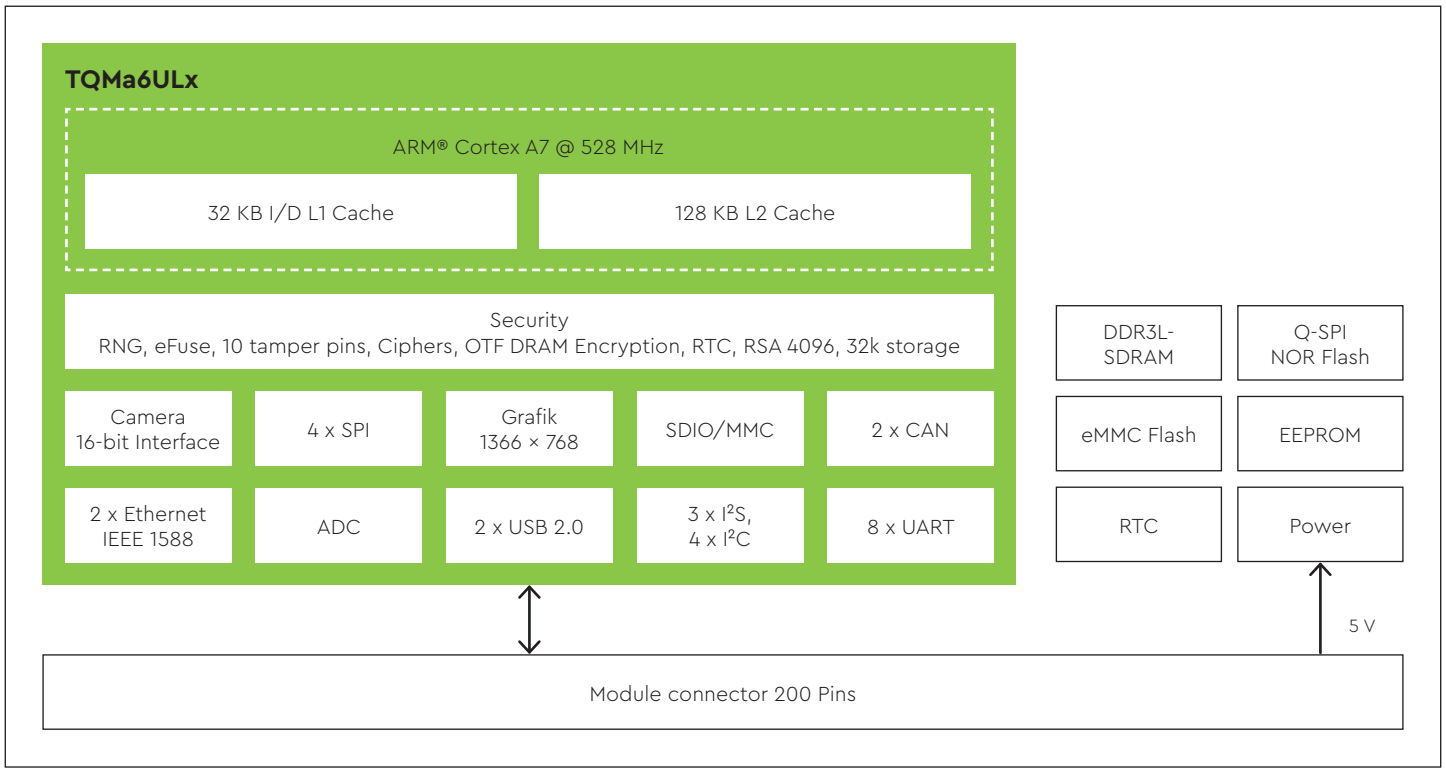
Energy-efficient and future-oriented Cortex A7 module based on i.MX6UL and i.MX6ULL.

TECHNICAL SPECIFICATION

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	5 V
Ambient conditions	Standard temperature range: -25°C...+85°C Extended temperature range: -40°C...+85°C

Dimensions	46 mm x 32 mm
Plug-in system	Board-to-board plug-in system 200 pins
Operating systems	Linux, QNX
Operating systems on request	VxWorks

BLOCK DIAGRAM TQMA6ULX



ORDERING INFORMATION

TQMa6UL1-AA	i.MX6UL1 (G1) / 528 MHz, 8 GB eMMC Flash 256 MB DDR3L, 64 kB EEPROM, RTC, -25°C...+85°C
TQMa6UL2-AB	i.MX6UL2 (G2) / 528MHz,8GB eMMC-Flash, 64MB Q-SPI NOR Flash, 256MB DDR3L-SDRAM, RTC, 64kB EEPROM, -40°C...+85°C
TQMa6ULL2-AA	i.MX6ULL2 (Y2) / 528MHz,8GB eMMC-Flash, 256MB DDR3L-SDRAM, RTC, 64kB EEPROM, -25°C...+85°C
TQMa6UL2-AA	i.MX6UL2 (G2) / 528 MHz, 8 GB eMMC Flash 256 MB DDR3L, 64 kB EEPROM, RTC, -25°C...+85°C
TQMa6UL3-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, 8 GB eMMC Flash, 64 kB EEPROM, RTC, 1x RS232, 1x RS485, 2 x 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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