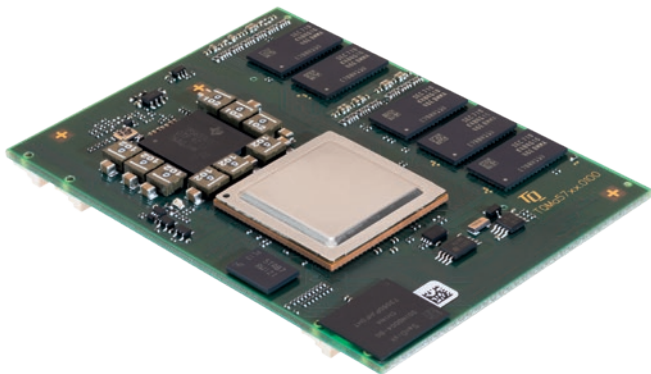


TQMa57xx

Arm® Family



HIGHLIGHTS

- ▶ Graphic with HD support
- ▶ Extended temperature range
- ▶ High-speed communication via with up to: 2x GbE, 4x Real-Time Ethernet 10/100-Base, 2xPCIe, 1x USB 3.0, 1x USB 2.0 OTG, CAN-FD support
- ▶ Low power consumption (typ. 4 W)
- ▶ Integrated 2x Cortex® M4
- ▶ IEEE 1588 hardware support
- ▶ Security functions

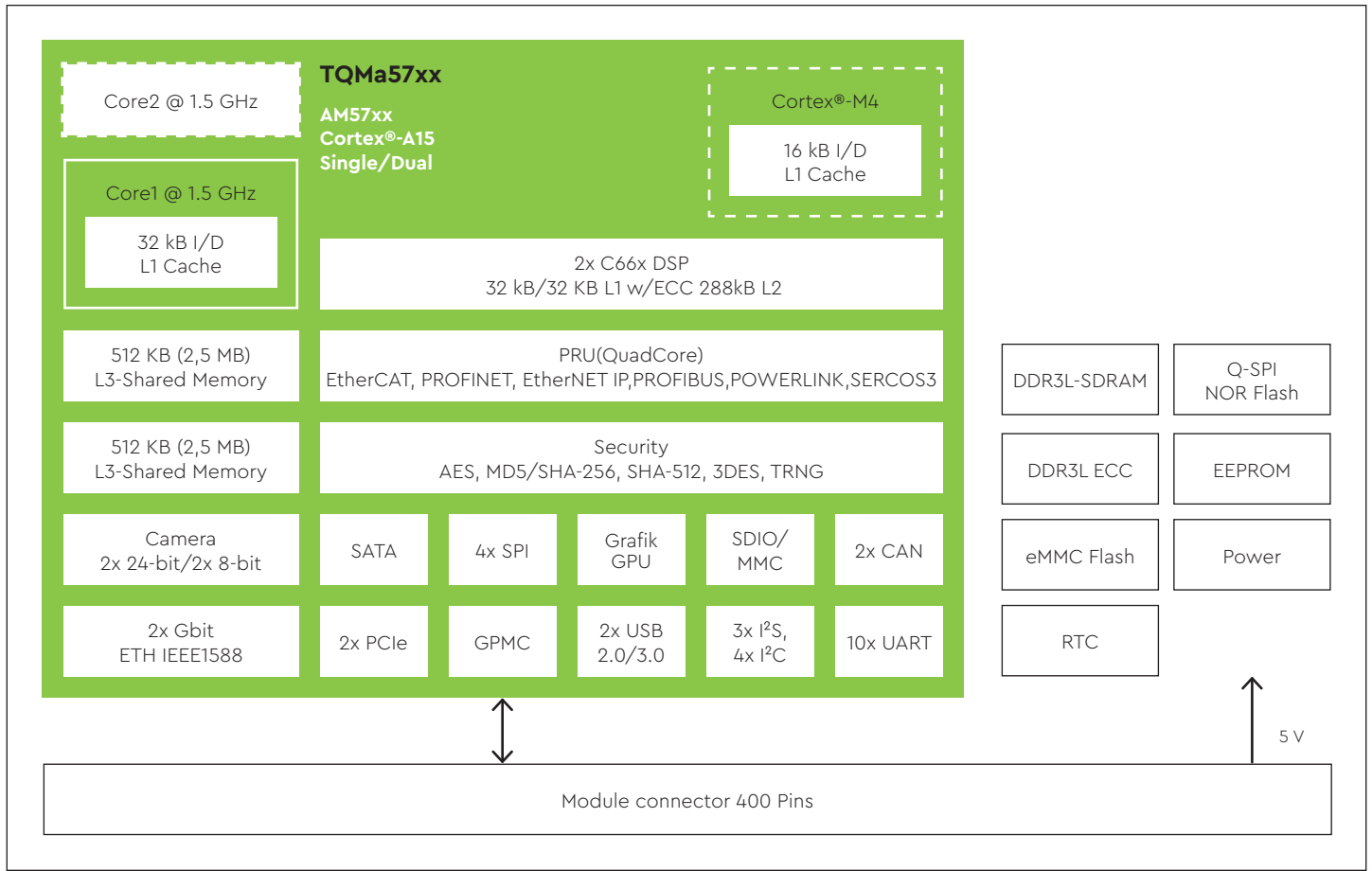
Embedded Cortex®-A15 module based on AM57xx for applications with real-time requirements.

TECHNICAL SPECIFICATION

CPU	AM571x, AM572x, AM574x
Interfaces	Up to 2x Ethernet 10/100/1000 Mbit (IEEE 1588) Up to 4x Ethernet 10/100 (PRU) Up to 2x CAN 1x USB 2.0 high speed OTG Up to 1x USB 3.0 high speed Host Up to 10x UART
Periphery interfaces	Up to 2x SDIO/MMC Up to 3x I ² C Up to 4x SPI Up to 4x I ² S Up to 1x SATA 3.0 Up to 2x PCIe
Graphic	LCD Interface (2x 24-bit RGB), HDMI-Interface Camera sensor interface (2x 24b/2x 8b)
Memory	DDR3L-SDRAM: Up to 4 GB ECC Protection (optional) 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	75 mm x 55 mm
Plug-in system	Board-to-board plug-in system 400 pins
Operating systems	Linux
Operating systems on request	VxWorks, QNX, Android

BLOCK DIAGRAM TQMA57XX



ORDERING INFORMATION

TQMa5718-AA AM5718/1,5 GHz, 8 GB eMMC-Flash, 1 GB DDR3L-SDRAM, 64 kB EEPROM, RTC, -25°C...+85°C

TQMa5728-AA AM5728/1,5 GHz, 8 GB eMMC-Flash, 2 GB DDR3L, 64 kB EEPROM, RTC, -25°C...+85°C

TQMa5748-AA AM5748/1,5 GHz, 8 GB eMMC-Flash, 2 GB DDR3L-SDRAM, 64 kB EEPROM, RTC, -25°C...+85°C

Other configurations on request

STKa57xx-AA

STKa57xx (Eval Kit) with TQMa574x-AA, Dual Cortex®-A15/1,5 GHz, 1 GB DDR3L, 8 GB eMMC Flash, 64 kB EEPROM, 1x RS232, 1x RS485, 1x CAN 2.0 B, 1x CAN-FD, 3x USB 3.0 HOST, 1x USB 2.0 OTG, 2x GbE, 2x PRU-ETH, LCD Port, 1x HDMI, LVDS, 2x PCIe, RTC, Temperature sensor, Reset button, SD-Card interface, Audio, Power Supply, 4 GB SD card, Cables

Starterkit STKa57xx set

The core of the STKa57xx set is the TQMa57xx module with a Single/Dual Cortex®-A15 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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