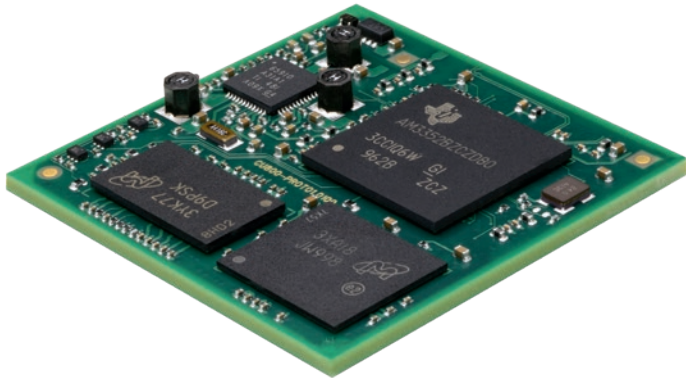


TQMa335xL

Arm® Family



HIGHLIGHTS

- ▶ Real time communications subsystem
- ▶ Recommended for high quantity use
- ▶ Low-cost due to highest level of integration
- ▶ Extended temperature range
- ▶ 2x IEEE1588 Ethernet (int. Switch)
- ▶ Low power consumption (2 W)
- ▶ Long-term availability

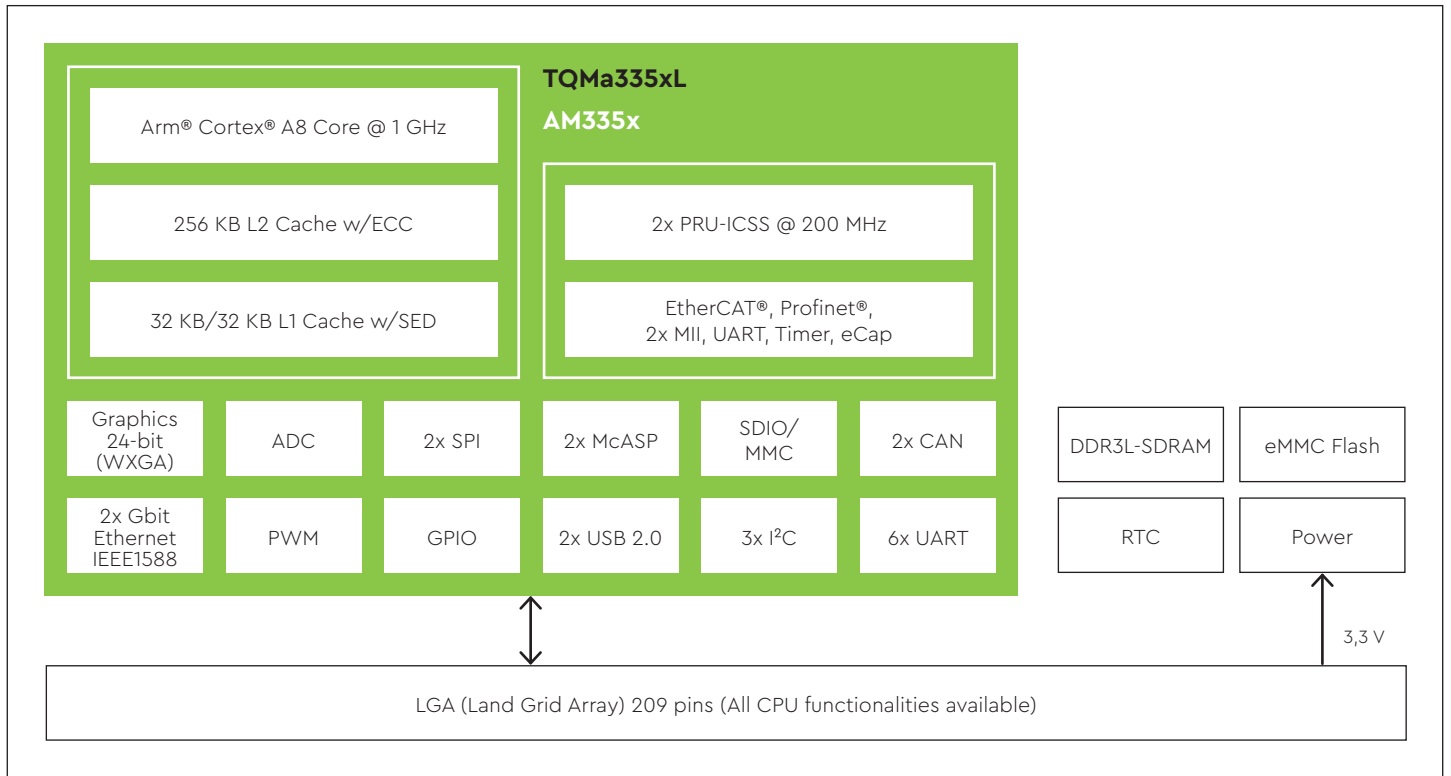
Embedded LGA module based on Cortex® A8 (AM335x) with graphics and real-time support.

TECHNICAL SPECIFICATION

CPU	AM3352, AM3354, AM3358, AM3359 (Up to 1 GHz)
Interfaces	Up to 2x Ethernet 10/100/1000 Mbit (L2 Switch) Up to 2x CAN 2.0 B Up to 6x UART 2x USB 2.0 high speed OTG interface Up to 2x SDIO/MMC Up to 3x I2C Up to 2x McASP (4 ch) Up to 2x SPI GPIO Up to 8x 12-bit ADC channels Up to 3x PWM
Graphic interface	24-bit TFT Interface
Memory	DDR3L-SDRAM: up to 512 MB eMMC Flash: up to 16 GB
Other	Real Time Clock (RTC) CPU JTAG Interface

Power supply	3,3 V
Ambient conditions	Standard temperature range: -25°C...+85°C Extended temperature range: -40°C...+85°C
Plug-in system	LGA (Land Grid Array) 209 pins
Operating systems	Linux, QNX, Windows Embedded Compact 2013
Dimensions	38 mm x 38 mm

BLOCK DIAGRAM TQMA335XL



ORDERING INFORMATION

TQMa3352L-AA AM3352 @ 800 MHz, 256 MB DDR3L, 4 GB eMMC flash, -25°C...+85°C

TQMa3354L-AA AM3354 / 800MHz, 4GB eMMC Flash, 256MB DDR3L, -25°C- +85°C

TQMa3359L-AA AM3359 @ 800 MHz, 256 MB DDR3L, 4 GB eMMC flash, -25°C...+85°C

Other configurations on request

STKa335x-AA STKa335 (Eval Kit) with TQMa3359-AA, AM3359/800 MHz, 256 MB DDR3, 4 GB eMMC Flash, 64-kbit EEPROM, 1x RS232, 1x RS485, 2x CAN 2.0 B gtr., 1x USB 2.0 HOST, 1x USB 2.0 OTG, 2x ETH 10/100/1000 (1x EtherCat), Stereo Out, Mono Mic In, RTC, Temperature sensor, Reset button, SD interface, Power Supply, 4 GB SD card, Cables

Starterkit STKa335x *Please note, that for evaluation purposes we provide you with the starter kit STKa335x with the module TQMa335x (not TQMa335xL!). The module mainly differs in the plug-system. Development of graphic interfaces can be started immediately using the prepared combination of closed 7" display unit and starter kit that are matched to each other. The core of the STKa335x is the TQMa3359 with an Arm® Cortex® A8 CPU. The components contained in the starter kit constitute a modular system enabling you to develop your own product ideas.

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