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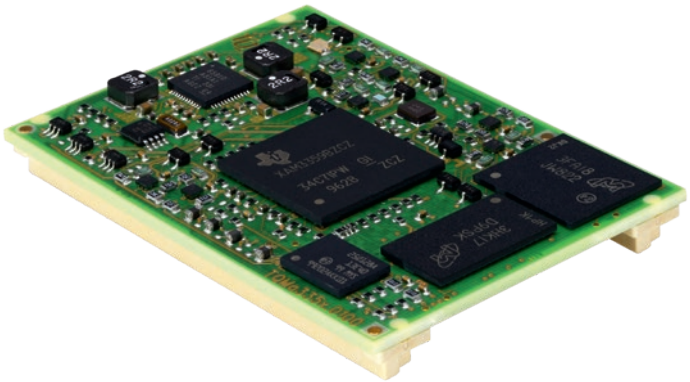
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# TQMa335x

## Arm® Family



### HIGHLIGHTS

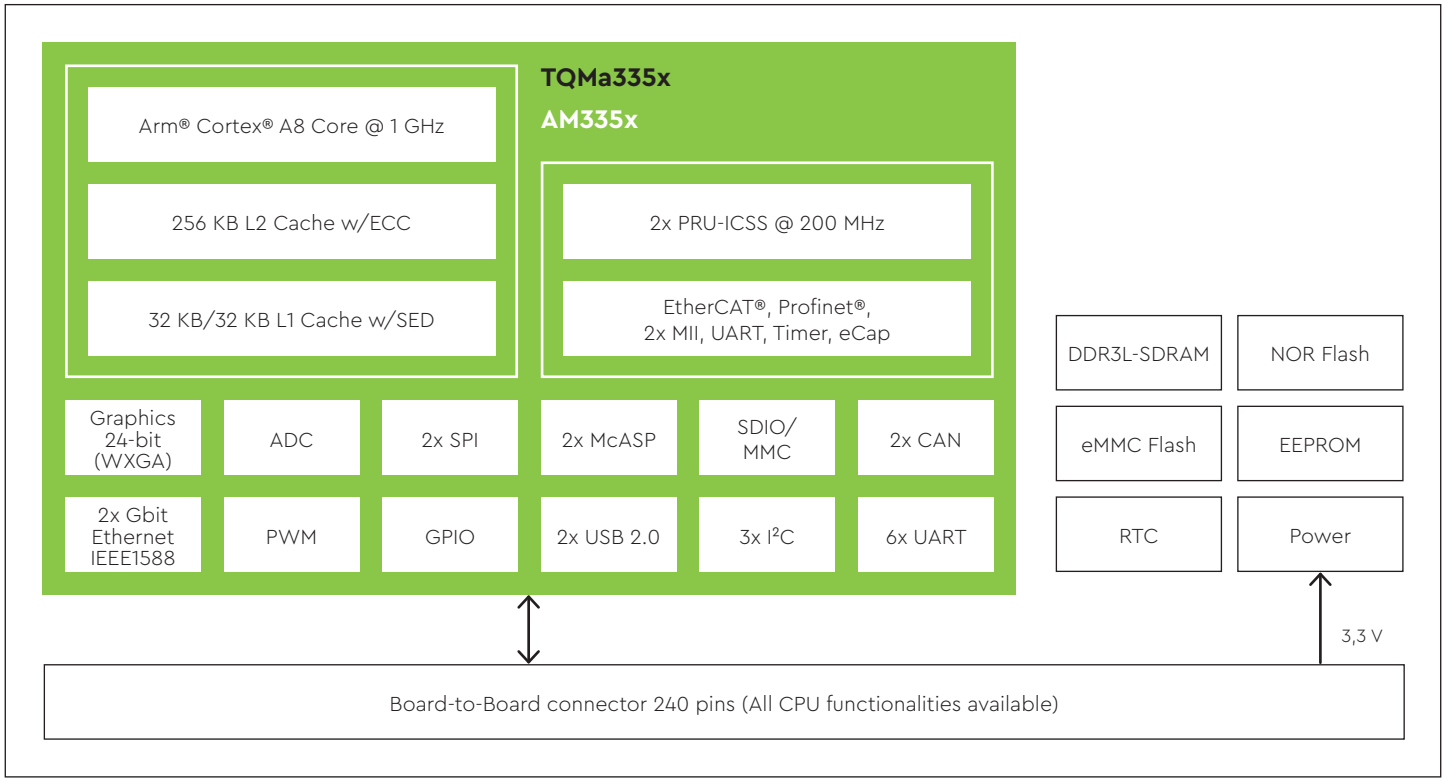
- Real time communications subsystem
- Low-cost due to highest level of integration
- Extended temperature range
- 2x IEEE1588 Ethernet (int. Switch)
- Low power consumption (2 W)
- Long-term availability

**Embedded 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)<br>Up to 2x CAN 2.0 B<br>Up to 6x UART<br>2x USB 2.0 high speed OTG interface<br>Up to 2x SDIO/MMC<br>Up to 3x I2C<br>Up to 2x McASP (4ch)<br>Up to 2x SPI<br>GPIO<br>Up to 8x 12-bit ADC channels<br>Up to 3x PWM |
| **Graphic interface** | 24-bit TFT Interface |
| **Memory** | DDR3L-SDRAM: up to 512 MB<br>eMMC flash: up to 16 GB<br>NOR flash: up to 128 MB<br>EEPROM: 0/64-kbit |
| **Other** | Real Time Clock (RTC)<br>Temperature sensor<br>CPU JTAG Interface |
| **Power supply** | 3,3 V |
| **Ambient conditions** | Standard temperature range: -25°C...+85°C<br>Extended temperature range: -40°C...+85°C |
| **Plug-in system** | Board-to-Board plug-in system (240 Pins) 2* 120 |
| **Operating systems** | Linux, QNX, Windows Embedded Compact 2013 |
| **Dimensions** | 54 mm x 38 mm |

## BLOCK DIAGRAM TQMA335X




## ORDERING INFORMATION

| | |
|---|---|
| **TQMa3352-AA** | AM3352 @ 800 MHz, 256 MB DDR3L, 4 GB eMMC Flash, 64-kbit EEPROM, -25°C...+85°C |
| **TQMa3352-AB** | TQMa3352-AB, with TI AM3352 / 800MHz, 4GB eMMC Flash, 256MB DDR3L, 64kB EEPROM -40°C- +85°C |
| **TQMa3354-AA** | AM3354 @ 800 MHz, 256 MB DDR3L, 4 GB e-MMC Flash, 64-kbit EEPROM, -25°C...+85°C |
| **TQMa3359-AA** | AM3359 @ 800 MHz, 256 MB DDR3L, 4 GB eMMC Flash, 64-kbit EEPROM, -25°C...+85°C |
| | Other configurations on request |
| **STKa335x-AA** | STKa335x (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 isol., 1x USB 2.0 HOST, 1 x 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** | 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. 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. |

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tq-embedded.com

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