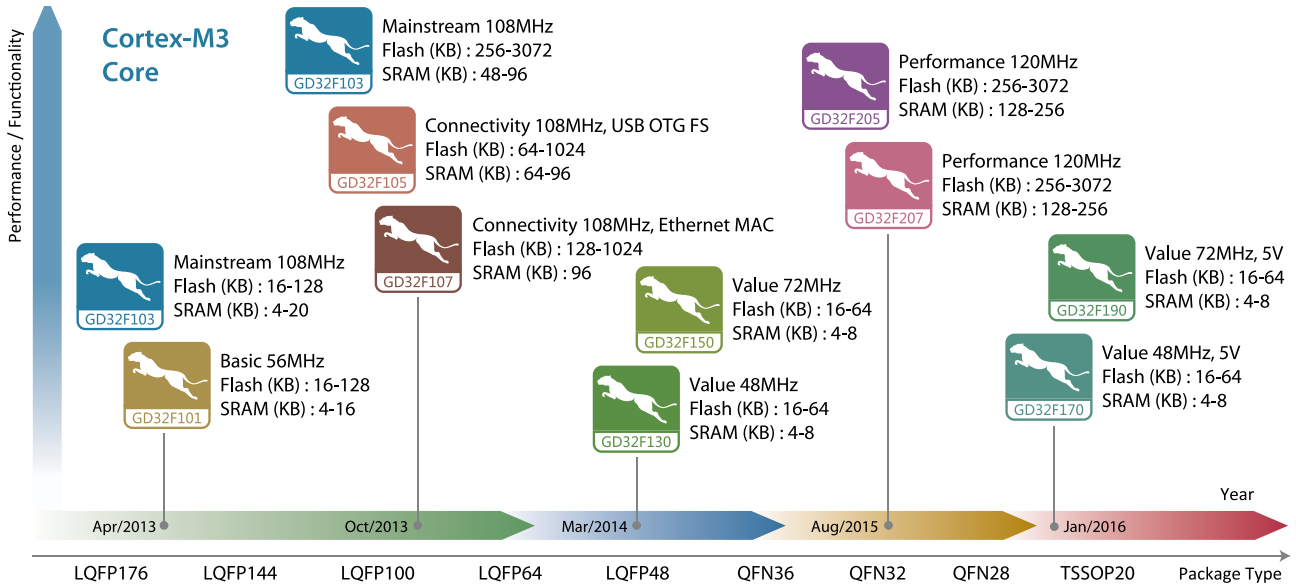
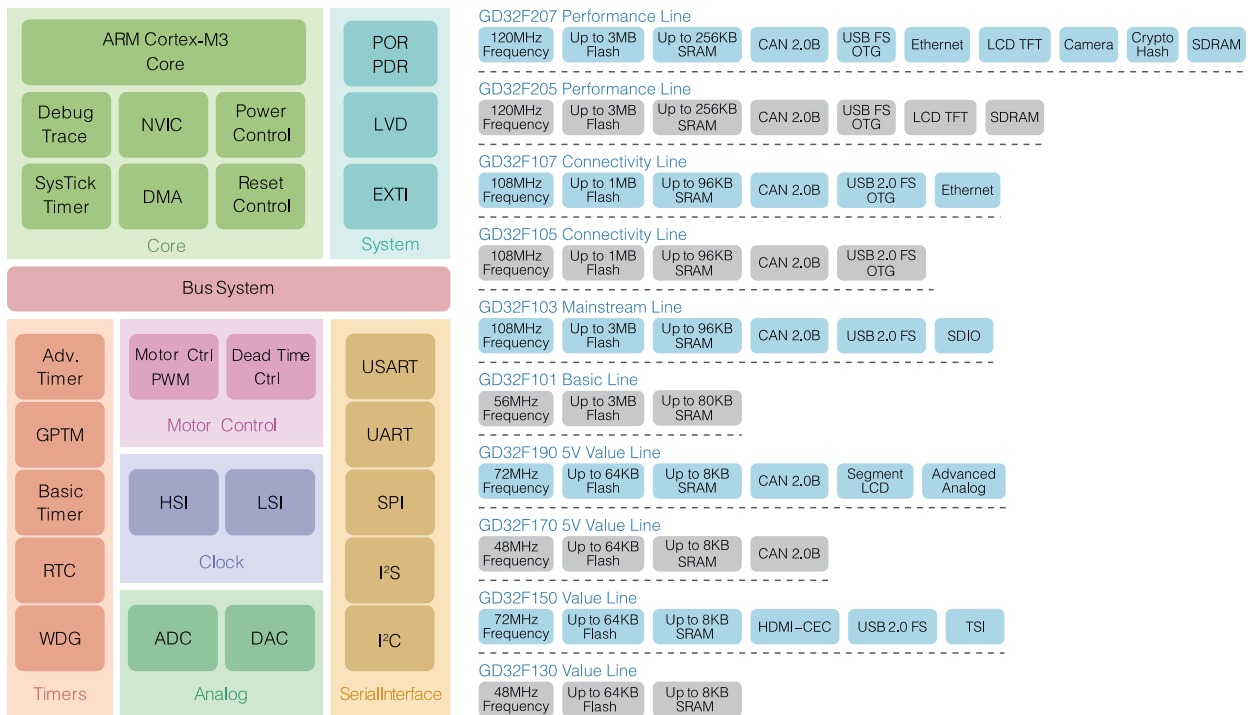


GIGADEVICE GD32 MCU

GD32 MCU Road map



GD32 MCU Configuration



GIGADEVICE GD32 MCU

Corporate Snapshot

- Corporate Headquarters Beijing, China.
- Fabless semiconductor company focused on advanced memory and 32 Bit ARM based Microcontroller solutions.
- Over 1 Billion Flash devices shipped per year and growing.
- One of the widest NOR Flash product lines in the industry.
- Ranked 3rd WW for SPI NOR flash and growing.
- 1st supplier to ship 8-pin WSON8 (6 x 8 mm) SPI NAND Flash.
- Privately held company with plans to go public in 2016.
- 300 + employees with 55% focused on R&D.
- Blue Chip Customer base

Advanced Main Features

ARM® Cortex® -M3 Core

- Frequency up to 108 MHz
- Flash access zero wait state
- Single-cycle multiplier and hardware divider
- NVIC support 16 internal & 60 external interrupts, each has 16 priority levels

Memories

- Flash up to 3072 KByte
- SRAM up to 96 KByte
- 2-18KB ISP loader ROM

Low power management

- Power saving mode: sleep, deepsleep & standby mode
- Independent battery supply for RTC and backup register

Advanced analog peripherals

- 3 x 12bit, 1µs ADC (up to 21 chs)
- 2 x 12-bit DAC

Integrated peripherals interface

- Up to 5 x USART/UART/Irda/LIN/ISO7816
- Up to 3 x SPI (18Mbit/s), 2 x I2S multiplexed
- Up to 2 x I2C (400Kbit/s)
- Up to 2 x CAN 2.0 B (1Mbit/s)
- USB 2.0 FS device/host/OTG (12Mbit/s)
- SDIO
- 10/100 Ethernet MAC

On-chip resources

- 2 x Advanced Timer, 1 x SysTick Timer, up to 10 x GPTM, 2 x Basic Timer, 2 x WDG
- 12-chs DMA support: Timers, ADCs, DACs,
- SPIs, I2Ss, I2Cs, USARTs
- System supervisor and reset: POR, PDR, LVD
- 80% GPIO available
- 32-bit CRC & 96-bit unique ID
- On-chip clock: HSI (8MHz), LSI (40KHz)
- 8/16 bit External Memory Control supported: SRAM, PSRAM, NOR, NAND, LCD

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