

# GD32F103 Series (Mainstream) – GD32 ARM Cortex-M3 Microcontrollers

## Features

### ARM® Cortex™-M3 core

- Frequency up to 108 MHz
- Single-cycle multiplier and hardware divider
- NVIC support 16 interrupts, each interrupt has 16 priority levels
- Flash memory

### Flash up to 3072 KB

- SRAM up to 96 KB
- 2KB ISP loader ROM

### Low-power management

- Support power saving mode: sleep, deep-sleep and standby mode
- Independent battery supply for RTC and backup register

### High performance analog peripherals

- 3 x 12bit, 1µs ADC
- 2 x DAC


### Variety of peripherals interface

- Up to 5 x USART/Irda/LIN/ISO7816
- Up to 3 x SPI (18Mbit/s)
- Up to 2 x I2C (400Kbit/s)
- Up to 2 x CAN 2.0 B (1Mbit/s)
- USB 2.0 FS (12Mbit/s)


### On-chip resources

- 1 x Advanced Timer, 1 x SysTick Timer, up to 10 x GPTM, 2 x WDT
- 2 x DMA supported
- POR,PDR and LVD
- 80% available GPIO
- 32 bit CRC
- Clock: HSI (8MHz) and LSI (40KHz)
- External Memory Control supported: SRAM, PSRAM, NOR-Flash, LCD


## Technical Resources




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**Additional MCU Documentation**  
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**GD32 Development Tools**  
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Cortex-M3 (35)

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Part Number

Reset

Max Speed ▶

Flash Memory ▶

SRAM ▶

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Part No.	Series	Line	Speed	Flash	SRAM
GD32F103C4T6	GD32F103	Mainstream	108	16K	6K
GD32F103C6T6	GD32F103	Mainstream	108	32k	10K
GD32F103C8T6	GD32F103	Mainstream	108	64K	20K
GD32F103CBT6	GD32F103	Mainstream	108	128K	20K
GD32F103R4T6	GD32F103	Mainstream	108	16K	6K
GD32F103R6T6	GD32F103	Mainstream	108	32K	10K
GD32F103R8T6	GD32F103	Mainstream	108	64K	20K
GD32F103RBT6	GD32F103	Mainstream	108	128K	20K
GD32F103RCT6	GD32F103	Mainstream	108	256K	48K
GD32F103RDT6	GD32F103	Mainstream	108	384K	64K
GD32F103RET6	GD32F103	Mainstream	108	512K	64K
GD32F103RFT6	GD32F103	Mainstream	108	768K	96K
GD32F103RGT6	GD32F103	Mainstream	108	1024K	96K

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