



GD32F310, A New Addition to the GD32F3 MCU Series

The newly launched GD32F310 MCU series further expands the GD32 MCU family value line and enables entry-level application development for industrial control, motor drives, smart homes, LED displays, portable medical devices, home appliances, and more.


The Best Balance Between Performance and Cost




The GD32F310 series adopts the Arm Cortex-M4 core, inherits the excellent performance of the GD32F330/350 MCU series, and undertakes the value-added features of the GD32E230 series.

Compatibility Across Products

The GD32F310 series maintains hardware and software compatibility with the GD32E230, GD32F330, and GD32F350 MCU series, making product switching and migration more flexible. The application note “Migration from GD32E230 Series to GD32F310 Series” is provided to engineers to support rapid design and migration between products.

The GD32F3x0 Series Provides 40 Part Numbers in Three Series and Six Package Options, Including LQFP64, LQFP48, LQFP32, QFN32, QFN28 and TSSOP20



 GD32F310	Value 72MHz Flash 16-64KB SRAM 4-8KB	 GD32F330	Value 84MHz Flash 16-128KB SRAM 4-16KB	 GD32F350	Value 108MHz Flash 16-128KB SRAM 4-16KB
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Innovative Solutions Provided by Rich Peripheral Interfaces

Available on GD32F310 / F350

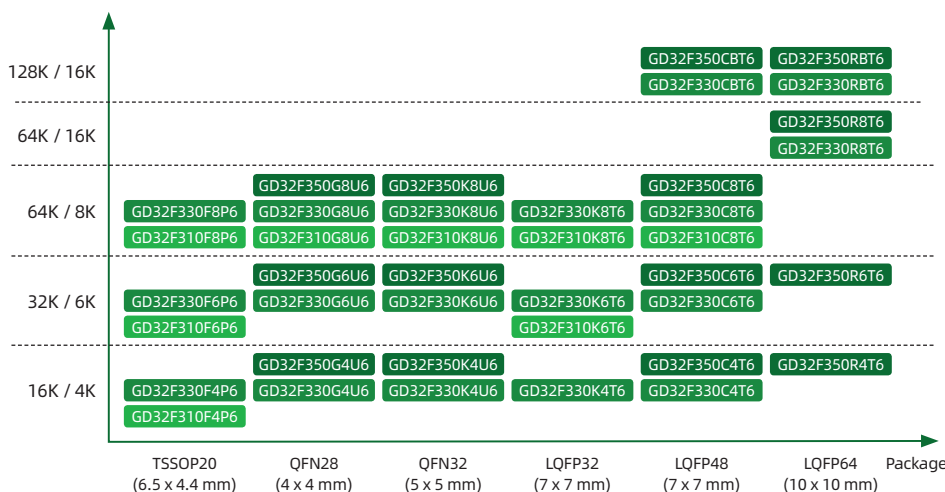
Available on GD32F330 / F350

Available on GD32F350 only

System <ul style="list-style-type: none"> 8/28/48MHz HIRC 40KHz LIRC EXT:4-32MHz/ 32.768KHz PLL POR/PDR/LVD CCU/RCU/PMU 	Arm® Cortex®-M4 core 72/84/108 MHz <ul style="list-style-type: none"> DSP instruction extension Floating Point Unit (FPU) NVIC SWJ-DP 	Memory <ul style="list-style-type: none"> 128 KB Flash 16 KB SRAM
Timers <ul style="list-style-type: none"> 1x 32bit GP Timer 5x 16bit GP Timer 1x 16bit AD Timer 1x 16bit Basic Timer IWDG / WWDG RTC SysTick 	Peripherals <ul style="list-style-type: none"> Up to 7-CH DMA Max 55 GPIOs Touch sensing interface (TSI) 	Connectivity <ul style="list-style-type: none"> 2x USART 2x I²S 2x SPI 1x I²S 1x HDMI-CEC 1x USB OTG 2x Comparator
		Analog <ul style="list-style-type: none"> 1x 12bit ADC 1x 12bit DAC

GD32F310/F330/F350 Value Portfolio

Flash / SRAM Size (Bytes)



Development tools

Board Type	Order Code	Onboard Part Number
Eval Board	GD32350R-EVAL	GD32F350R8T6
Starter Kit	GD32350C-START	GD32F350C8T6
Starter Kit	GD32350G-START	GD32F350G8U6
Starter Kit	GD32330C-START	GD32F330C8T6
Starter Kit	GD32F330K-START	GD32F330K8T6
Starter Kit	GD32330G-START	GD32F330G8U6
Starter Kit	GD32330F-START	GD32F330F8P6
Eval Board	GD32F310C-EVAL	GD32F310C8T6
Starter Kit	GD32F310K-START	GD32F310K8T6
Starter Kit	GD32F310G-START	GD32F310G8U6
Starter Kit	GD32F310F-START	GD32F310F8P6

The full-featured **Evaluation Boards** support application development and debugging, demonstrating the complete functional capabilities of the device.

The entry-level **Starter Kits** correspond to different package types. They support simpler application development and debugging.

Mouser Electronics

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[GD32F310K8T6](#) [GD32F310G8U6TR](#) [GD32F310C8T7](#) [GD32F310F4P6TR](#) [GD32F310F6P6TR](#) [GD32F310F8P6TR](#)
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