



GigaDevice's Entry-level Arm® Cortex®-M23 Processor Series - GD32E230 MCU

The GD32E230 series of Arm Cortex-M23 MCUs brings customers the advantages of small size, cost optimization, energy efficiency, and flexibility while supporting security extension requirements to run the latest embedded application solutions.

It is manufactured using industry-leading low-power technology for cost-effective applications. Its small size and power efficiency can replace and enhance traditional 8-bit and 16-bit product solutions while delivering improved performance and power efficiency over the Arm Cortex-M0/M0+ cores.

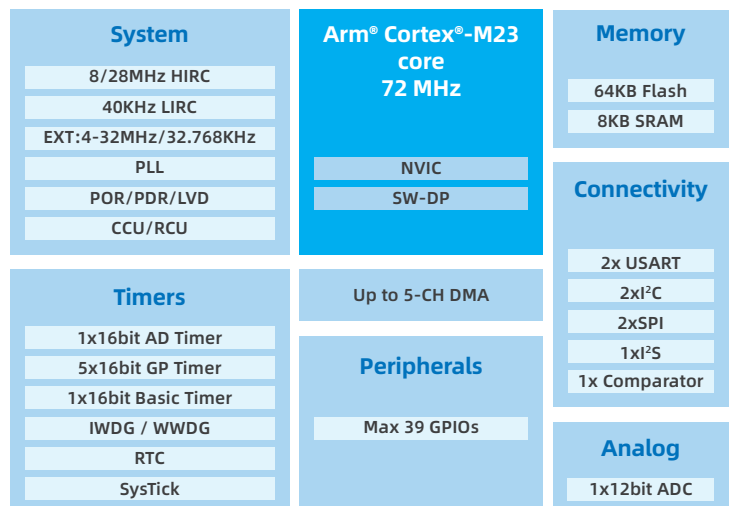
GD32E230 is pin-group compatible with GD32F330/ F350 Series, which includes a Cortex-M4 core with up to 128KB Flash / 16KB RAM.

The scalability of the GD32 MCU family allows customers to optimize their BOM costs based on performance requirements with low hardware and software design efforts.

Key Features

- ◆ 72MHz Arm® Cortex®-M23 core
- ◆ Up to 64KB of embedded eFlash
- ◆ Up to 8KB of SRAM
- ◆ Single-cycle multiplier and 17-cycle divider
- ◆ An extensive range of enhanced I/Os and peripherals
80% GPIO available

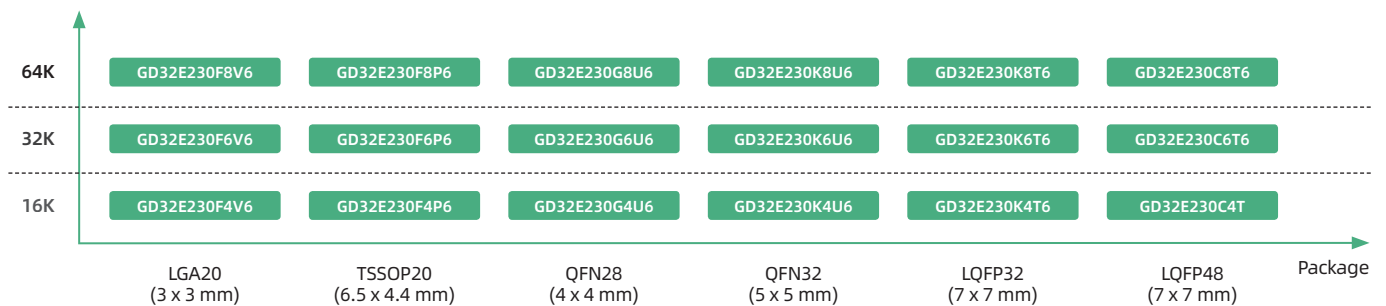
GD32E230 Block Diagram





GD32E230 Cortex®-M23 Value Portfolio Product Lineup

Flash Size (Bytes)



Development Tools

GD32E230C-EVAL

A full-featured evaluation board based on the GD32E230C8T6. Supports software development, debugging, and demonstrates the complete functional capabilities of the device.

GD32E230C-START / GD32E230G-START / GD32E230K-START / GD32E230F-START / GD32E230V-START

Entry-level learning boards based on the GD32E230C8T6 / GD32E230G8U6 / GD32E230K8T6 / GD32E230F8P6 / GD32E230F8V6. These correspond to different package types to support simpler application development and debugging.

arm KEIL



IAR
SYSTEMS

eclipse

Supported by the widely popular Keil MDK, IAR Workbench, and SEGGER Embedded Studio Commercial Tools. GNU Tools from Eclipse / Arm Embedded Toolchain are also supported.

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GigaDevice:

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