




GD32F303/F305/F307 Mainstream Cortex®-M4 MCUs Power Industrial Control, Consumer, and IoT Applications




Based on the 120MHz Cortex®-M4 core and supporting fast DSP functionality, the GD32F303/F305/F307 32-bit general-purpose MCUs continue to power mainstream applications with enhanced processing performance and rich system resources.

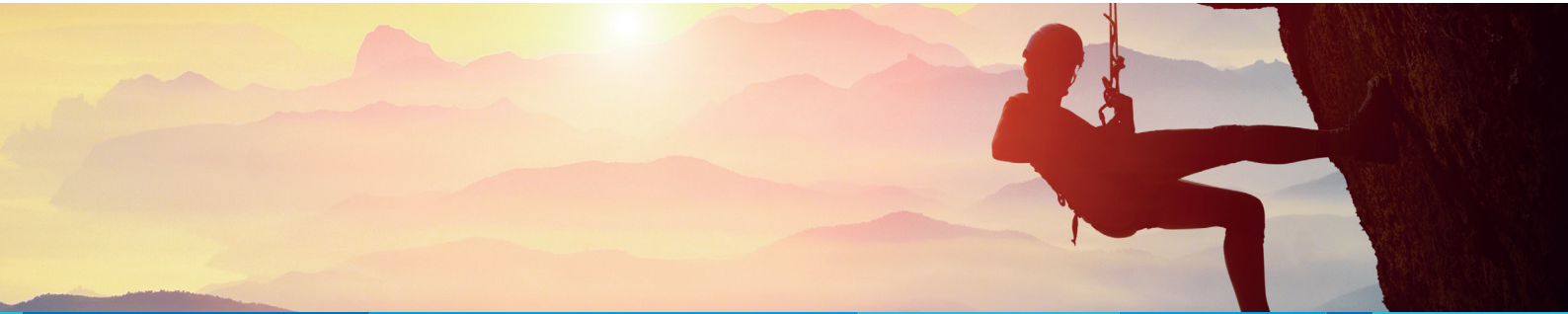
Compatibility Across Products

The GD32F30x MCUs are software and hardware compatible with other GigaDevice MCUs. For example, users can easily upgrade their designs from the GD32F103/E103/C103 to the GD32F303, making their products scalable. The application notes, “Migration from GD32F10x Series to GD32F30x Series” and “Migration from GD32E103/C103 Series to GD32F30x Series” are provided to engineers to support rapid design and migration between products.

The GD32F30x Series Provides 40 Part Numbers in Three Series and Four Package Options, Including LQFP144, LQFP100, LQFP64 and LQFP48

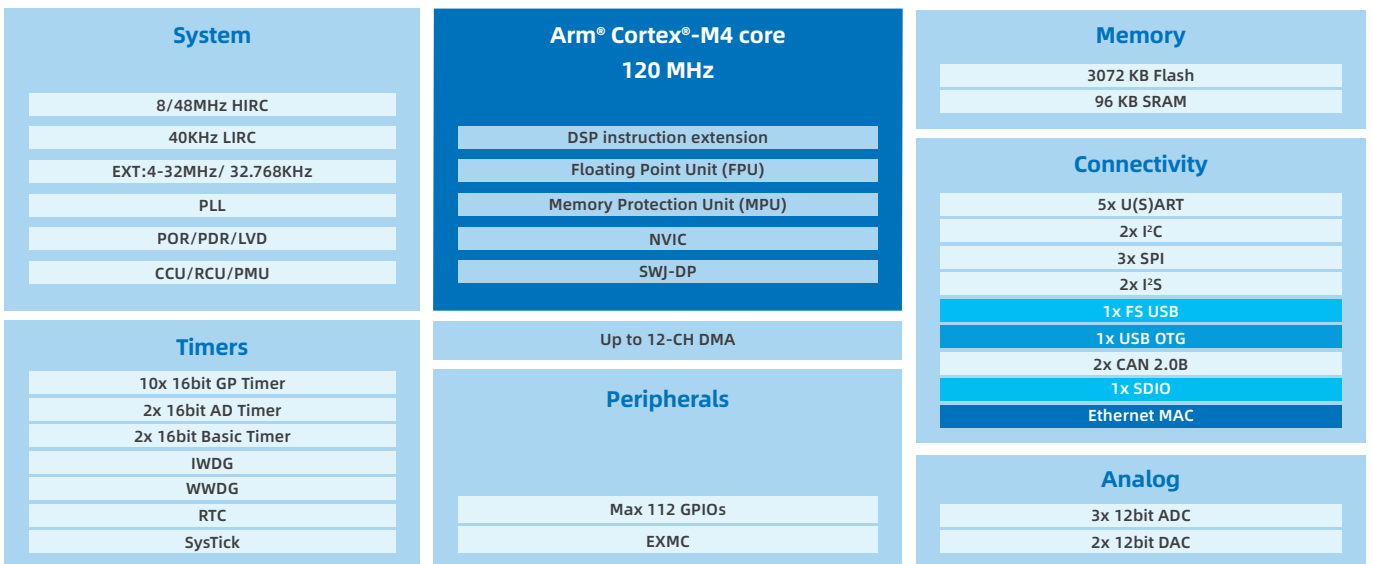


 GD32F303	Mainstream 120MHz Flash 128-3072KB SRAM 32-96KB	 GD32F305	Connectivity 120MHz Flash 128-1024KB SRAM 96KB	 GD32F307	Connectivity 120MHz Flash 256-1024KB SRAM 96KB
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GD32F303 Block Diagram

Available on GD32F303 only Available on GD32F305 / F307 Available on GD32F307 only

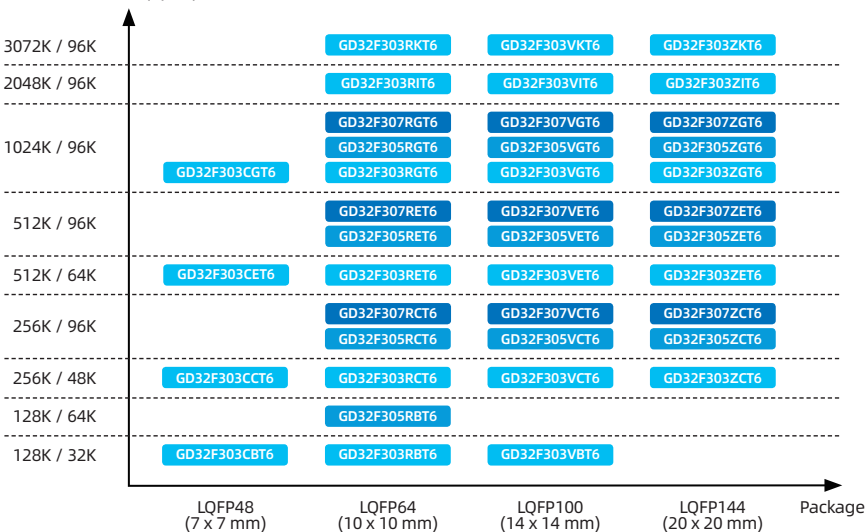


◆ GD32F303 provides 1x CAN 2.0B and 3x 12bit ADCs

◆ GD32F305 and GD32F307 provide 2x CAN 2.0B and 2x 12bit ADCs

GD32F303/F305/F307 Mainstream Portfolio

Flash / SRAM Size (Bytes)



Development tools

Board Type	Order Code	Onboard Part Number
Evaluation Board	GD32303E-EVAL	GD32F303ZET6
Evaluation Board	GD32303C-EVAL	GD32F303VCT6
Evaluation Board	GD32F303B-EVAL	GD32F303VBT6
Starter Kit	GD32F303R-START	GD32F303RGT6
Starter Kit	GD32303C-START	GD32F303CGT6
Starter Kit	GD32F303B-START	GD32F303CBT6
Solution	GD32303R-FOC V2.0	GD32F303RCT6
Starter Kit	GD32305R-START	GD32F305RCT6
Evaluation Board	GD32307C-EVAL	GD32F307VCT6
ARM-MBED	GD32F307V-MBED	GD32F307VGT6

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.