



GD32F470/F427/F425 High Performance Line

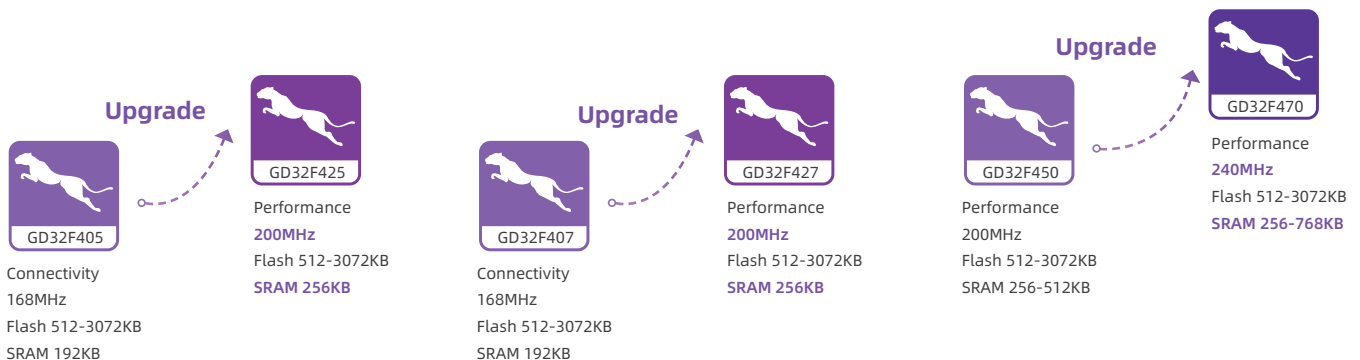
The Most Powerful ARM® Cortex®-M4 Core-Based Product in the GD32 MCU Product Family

The newly launched GD32F470/F427/F425 series of high-performance microcontrollers expands the GD32F4 product family. The new series offers a large memory capacity and high core frequency. It inherits the rich peripheral interfaces and enhanced security functions of the GD32F4 series. It is fully compatible with GD32F450/F407/F405 products, providing customers with improved performance. The GD32F470x MCU series are available in high-volume quantities to meet market demand.

Advanced Manufacturing Technology Reduces Power Consumption while Achieving Better Cost-Effectiveness

The 40nm advanced process can meet the sophisticated requirements of the increasing MCU control system. It achieves lower power consumption, effectively extending the life of the end device while enhancing system reliability & safety and reducing the silicon area of a single chip to achieve better cost-effectiveness.

Performance Optimization while Providing Full Hardware / Software Compatibility



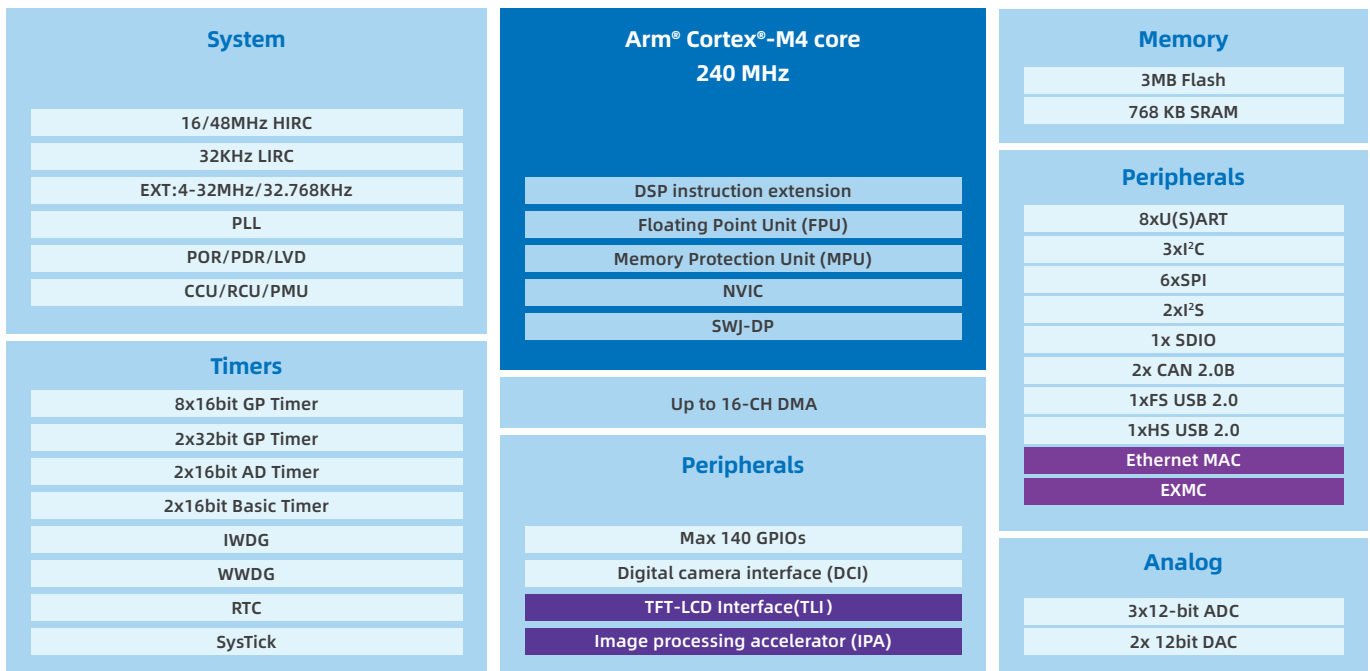
The new GD32F470/F427/F425 series closely follows the broader market demand, covering an extended range of differentiated market applications with high performance, real-time processing, and high storage capacity.



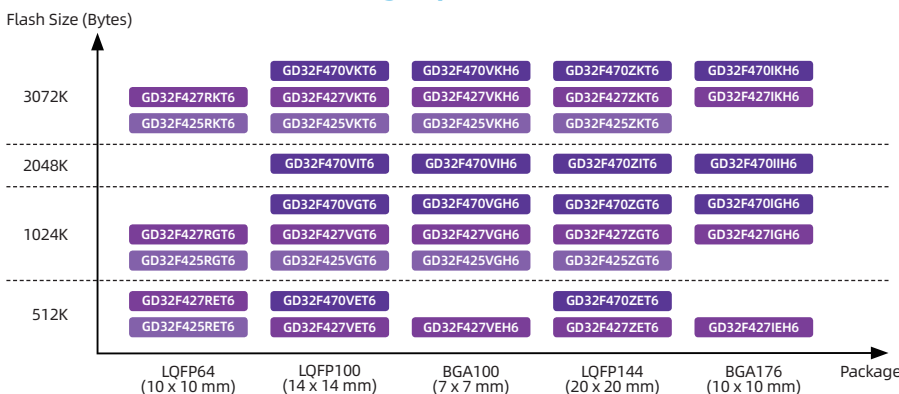
GD32F470/F427/F425 Block Diagram

Notes: GD32F470 provides the highest performance and the most comprehensive peripheral interfaces.

Available on GD32F427/F470
Available on GD32F470 only



GD32F470/F427/F425 High-performance Portfolio



Development tools

GD32470I-EVAL / GD32470Z-EVAL

A full-featured evaluation board based on the GD32F470IKH6 / GD32F470ZKT6, respectively. Supports software development, debugging, and demonstrates the complete functional capabilities of the device.

GD32F470V-START / GD32F427H-START / GD32F427V-START / GD32F427R-START

Entry-level learning boards based on the GD32F470VKT6 / GD32F427VKH6 / GD32F427VKT6 / GD32F427RKT6, respectively. These correspond to different package types to support simpler application development and debugging.