

Featured



Flash memory, MCU, sensor and power semiconductors





GigaDevice

& Alcom

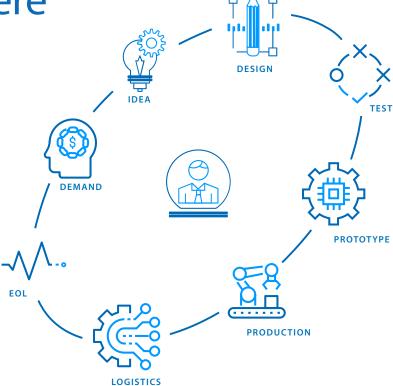


GigaDevice Semiconductor is committed to building a complete ecosystem with major product lines- Flash memory, MCU, sensor and power as the core driving force, GigaDevice can provide a wide range of solutions and services in the fields of industrial, automotive, computing, consumer electronics, IoT, mobile, networking and telecommunications.

GigaDevice is currently ranked No. 3 NOR FLASH supplier in the world with accumulated shipments over 21 billion since its inception. GigaDevice GD32 MCU is a leader in China's high performance 32-bit general-purpose microcontroller market, with more than 1.5 billion units shipped, and over 550 part numbers from 42 family series in a variety of applications. In addition, GigaDevice delivers touchscreen controllers and fingerprint sensors to world-renowned mobile makers around the globe.

Contact your Alcom sales contact to learn more about GigaDevice We are able to support our customers with technical design support and any commercial question by a dedicated team of people.

Co-creation starts here



Alcom considers everybody an indispensable added value in the collaborative chain with all of its partners.

Applications & Markets



MOBILE & WEARABLES



MOTOR CONTROL



FACTORY & INDUSTRIAL AUTOMATION AND ROBOTICS



WHITE GOODS & HOME APPLIANCES



AUTOMOTIVE



MEDICAL, HEALTHCARE



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E-MOBILITY



HOME & BUILDING AUTOMATION



SECURITY & SURVEILLANCE

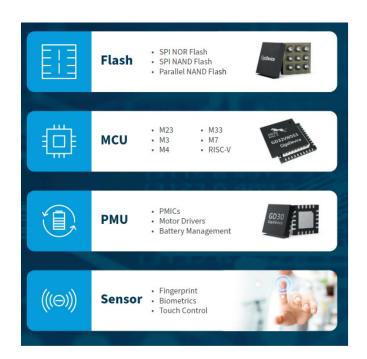


KIOSK, POS AND DIGITAL SIGNAGE



SMART RETAIL

Product Family



Product Overview

SPI NOR Flash

16 density options from 512Kb to 2Gb to meet the requirements of different real-time operating systems and supports 3V, 1.8V, 1.2V, and battery-powered 1.65~3.6V(WR) wide-voltage power supply.

- Ultra-low power
- Ultra-small package
- High reliability



SPI NAND Flash

SPI NAND Flash has a built-in switchable ECC module, supports QSPI, and offers high speed, high reliability and low power consumption.

Parallel NAND Flash

Complies with ONFI 1.0 protocol. The product provides 1Gb to 8Gb density options. It supports either 3V or 1.8V voltage, and x8 or x16 I/O interfaces, as well as mainstream packages such as TSOP48 and BGA63.



Sensor

Touch

GigaDevice is the largest one-glass solution (OGS) supplier with touch control chips that support high-resistance ITO materials, single-layer multi-touch, and super-narrow borders. The touch control chips offer 26 to 72 wide channel options and support screen sizes from 1 to 20 inches.



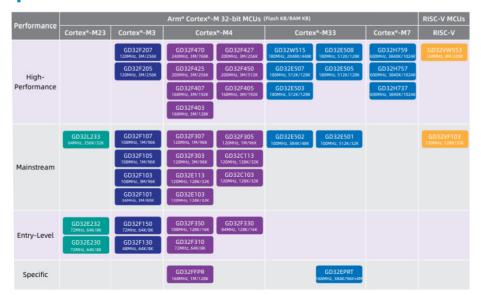
Fingerprint

GigaDevice launched its first 6*6mm capacitive fingerprint sensor in 2014 and under OLED optical fingerprint sensor in 2018. Over the years, we have become one of the leading suppliers of the front, rear, and side capacitive and optical solutions for flagship and high- to mid-range smartphones.

Product Overview

32-bit general-purpose MCUs with Arm® Cortex®-M and RISC-V

- Arm Cortex-M3
- Arm Cortex-M4
- Arm Cortex-M23
- Arm Cortex-M33
- Arm Cortex-M7
- RISC-V





High performance power

- Wireless infrastructure
- Telecom/Networking cards
- Industrial application
- IPC
- IoT

Motor Driver

- BLDC, BDC and stepper motors
- Power tools
- Robotics and RC toys
- Industrial Automation
- IoT

Battery Management

- Battery chargers and AFE
- Cleaning robots
- · Aeromodelling, drones
- Energy storage
- IoT

Specific power management

- TWS earbuds charging case
- Portable healthcare devices
- Aeromodelling, drones
- Low power applications
- Customized solutions

New product releases

CORTEX®-M33 CORE MCU FOR HIGH-PERFORMANCE APPLICATIONS

The GD32F5 series high-performance MCUs offer significantly expanded storage space, excellent processing efficiency, and a wide array of interface options. Compliant with the system-level IEC61508 SIL2 functional safety standard, they provide a comprehensive software and hardware security solution to meet the industrial market's demands for high reliability and security applications.





THE PREMIER CHOICE FOR ENTRY-LEVEL APPLICATIONS

The GD32E235 series MCU, powered by the Arm® Cortex®-M23 core, operates at clock frequencies of up to 72MHz. It comes equipped with embedded flash memory ranging from 16 KB to 128 KB and SRAM from 4 KB to 16 KB. With expanded storage capacity compared to the GD32E230 series, it can meet the growing storage space requirements in applications such as communication modules, graphic displays, wireless detectors, and other scenarios.

BRAND NEW WI-FI 6 MCU SERIES

The GD32VW553 series Combo Wireless MCU based on the RISC-V core supports Wi-Fi 6 and Bluetooth LE 5.2 wireless connectivity. It features advanced Radio Frequency Integrated Circuits (RFIC), enhanced security mechanisms, generous storage capacity, and a wide range of universal interfaces.





GD32H7 ARM® CORTEX®-M7 MCU PRODUCT FAMILY

First Arm® Cortex®-M7 core microcontroller (MCU) product family, the GD32H737/757/759 ultra-high performance MCU series. The GD32H7 series offers superior processing power with power efficiency, rich connectivity, and comprehensive security functions.

INDUSTRY'S SMALLEST 128MB SPI NOR FLASH IN 3X3X0.4MM FO-USON8 PACKAGE

With its thickness of only 0.4mm, the GD25LE128EXH offers designers unparalleled flexibility in designing compact applications, making it the ideal code storage unit for IoT, wearables, healthcare, and networking products that demand high functionality and low power consumption. The GD25LE128EXH features outstanding performance, with a maximum frequency of 133MHz and a data throughput of up to 532Mbit/s, significantly enhancing system access speed and instant-on capability.



1.2V GD25UF SPI NOR FLASH PRODUCT



The GD25UF series of SPI NOR Flash products are optimized for applications that require ultra-low power consumption or a small board footprint. The GD25UF products operate at a supply-voltage range of 1.14V-1.26V .This is ideal for devices built on advanced process nodes and operating at a core voltage of 1.2V, as it provides for a simpler power system architecture, and for direct interfacing between the I/O pins of the SoC or processor and the GD25UF device.

Alcom product portfolio

ELECTRONIC COMPONENT SOLUTIONS	WIRELESS EMBEDDED CONNECTIVITY & SENSORS	WIRELESS & INDUSTRIAL CONTROLS NETWORKING	DISPLAY & TOUCH
LED & SOLID STATE LIGHTING	POWER & EMC	RUGGED MOBILE COMPUTING	EMBEDDED SYSTEMS, AI & EDGE COMPUTING

- Semiconductors
- Frequency & timing
- Power management Circuit protection & discretes
- MagneticsPassives & electromechanical
- Connectors & cable assemblies
- Photonics

- Routers & gateways Wireless embedded computers Industrial ethernet and IP variations Wired & wireless machine networking
- Antenna's
- Device to cloud solutions
- Connectivity & remote management services Networking & connectivity

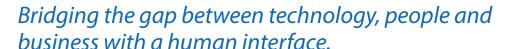
Wireless modulesAntenna'sSensors

Touch screensOptical bondingTotal display solutions

- AC/DC power supplies DC/DC converters Power management modules
- Wireless charging E-mobility solutions
- Transformers & power inductors
- EMC filters

- Computer-on-modulesEmbedded boardsIndustrial PC & automationSystem integration









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Get to know us

ALCOM PROVIDES THE WORLD'S MOST AD-VANCED TECHNOLOGIES.

With a team of like-minded entrepreneurs, Alcom will continue to inspire its valued customers to use advanced innovative building blocks in vertical markets. The importance of providing high-level services and a human interface based on specialism, knowledge and design-in expertise will remain key differentiators.

Alcom is positioned for growth. We invite all our customers to discuss their current and future concepts and designs. Let's connect, work and grow together.

