

 **GOLDEN****MCF5282CVM66****NXP Semiconductors in Stock**

Overview of MCF5282CVM66

The MCF5282CVM66 is a versatile embedded system solution, offering advanced processing, ample memory, and a comprehensive set of interfaces. Ideal for diverse applications across industries like industrial automation, consumer electronics, and automotive.

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Specifications of MCF5282CVM66

| | |
|-------------------------|---|
| Manufacturer | NXP Semiconductors |
| Series | MCF528x |
| Package | Bulk |
| Description | Coldfire V2 MCF528x Microcontroller IC 32-Bit Single-Core 66MHz 512KB (512K x 8) FLASH 256-MAPBGA (17x17) |
| Product Status | Active |
| Operating Temperature | -40°C ~ 85°C (TA) |
| Mounting Type | Surface Mount |
| Package / Case | 256-LBGA |
| Supplier Device Package | 256-MAPBGA (17x17) |
| Base Product Number | MCF5282 |
| Product Type: | 32-bit Microcontrollers – MCU |

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Industries and Sectors Where MCF5282CVM66 Commonly Used

- **Industrial Automation:** It can handle tasks such as data acquisition, sensor interfacing, and process control.
- **Motor Control:** The MCF5282CVM66 is well-suited for motor control applications, including motor drives for robotics, conveyor systems, and industrial automation.
- **Networking Equipment:** With built-in Ethernet and communication interfaces, this microcontroller can be used in networking equipment such as switches, routers, and gateways.

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Industries and Sectors Where MCF5282CVM66 Commonly Used

- **Automotive Systems:** In automotive applications, the MCF5282CVM66 can be used for tasks like engine control, transmission control, airbag systems, and dashboard instrumentation.
- **Medical Devices:** The microcontroller can be used in various medical devices, including patient monitors, infusion pumps, and diagnostic equipment.
- **Consumer Electronics:** It can be employed in consumer electronics products such as home automation controllers, smart appliances, and multimedia devices that require embedded control and connectivity features.

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Industries and Sectors Where MCF5282CVM66 Commonly Used

- **Embedded Systems:** The microcontroller is suitable for a wide range of embedded systems, including embedded computers, control panels, and human-machine interfaces (HMIs).
- **IoT (Internet of Things):** For IoT applications, the MCF5282CVM66 can be used in edge devices that collect data from sensors and transmit it over the network.
- **Security Systems:** It can be used in security and access control systems, such as door access control, alarm systems, and surveillance cameras.

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Industries and Sectors Where MCF5282CVM66 Commonly Used

- **Agriculture:** In agricultural applications, the microcontroller can be used for precision farming, automated irrigation systems, and monitoring environmental conditions.
- **Energy Management:** The MCF5282CVM66 can be employed in energy management systems for monitoring and controlling energy usage in commercial and residential buildings.
- **Avionics:** In aviation and aerospace applications, it can be used for control systems in unmanned aerial vehicles (UAVs), drones, and avionics equipment.



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Industries and Sectors Where MCF5282CVM66 Commonly Used

- **Instrumentation:** It is suitable for test and measurement equipment, data loggers, and scientific instruments that require real-time data processing and control.
- **Robotics:** The microcontroller can be used for controlling various aspects of robotics, including motion control, sensors, and communication with external devices.
- **Audio and Multimedia:** It can be used in audio processing applications, including MP3 decoding, audio streaming, and multimedia devices.

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MCF5282CVM66 vs MCF5282CVF66

| | This Part | Alternate Parts |
|-------------------------|--|--|
| |  <p><u>NXP Semiconductors</u> <u>MCF5282CVM66</u></p> |  <p><u>NXP Semiconductors</u> <u>MCF5282CVF66</u></p> |
| Stock | 477,615 | 365,809 |
| Authorized Distributors | 7 | 2 |
| Case/Package | MAPBGA | MAPBGA |
| Number of Pins | 256 | 256 |
| Core Architecture | Coldfire | Coldfire |
| Data Bus Width | 32 b | 32 b |
| Max Frequency | 66 MHz | 66 MHz |
| Number of I/Os | 150 | 142 |
| Interface | CAN, EBI/EMI, Ethernet, I2C, SPI, UART, USART | CAN, EBI/EMI, Ethernet, I2C, SPI, UART, USART |
| Memory Type | FLASH | FLASH |
| Memory Size | 512 kB | 512 kB |
| Min Supply Voltage | 2.7 V | - |
| Max Supply Voltage | 3.6 V | - |
| Peripherals | DMA, I2C, LVD, POR, PWM, WDT | DMA, I2C, LVD, POR, PWM, WDT |

MCF5282CVM66 Equivalent Parts

- **Microchip PIC32 Series:** Microchip offers a range of 32-bit PIC microcontrollers, such as the PIC32MX and PIC32MZ series, which are suitable for a variety of embedded control applications.
- **STMicroelectronics STM32 Series:** The STM32F7 and STM32H7 families, in particular, offer high performance and various connectivity options, making them potential alternatives.
- **NXP/Freescale Kinetis Series:** NXP (formerly Freescale) offers the Kinetis series of microcontrollers, which includes options with Ethernet and various communication interfaces.

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MCF5282CVM66 Equivalent Parts

- **Renesas RX Series:** Renesas offers the RX series of microcontrollers, which are suitable for industrial and automotive applications.
- **Texas Instruments Tiva C Series:** Texas Instruments' Tiva C series of microcontrollers are known for their connectivity features. The TM4C129x series, in particular, offers Ethernet connectivity and a wide range of peripherals.
- **Cypress PSoC Series:** Cypress Semiconductor's PSoC (Programmable System-on-Chip) series offers configurable microcontrollers with various communication interfaces and analog capabilities.

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