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See specifications for product details.



PIC32MZ2048EFM144-I/PH

Manufacturer Part Number **PIC32MZ2048EFM144-I/PH**

Manufacturer **Microchip Technology**

Allelco Part Number **32D-PIC32MZ2048EFM144-I/PH**

ECAD Model PCB Symbol, Footprint & 3D Model

Parts Description **IC MCU 32BIT 2MB FLASH 144TQFP**

Package **144-TQFP**

Data sheet **[PIC32 Microcontroller Brochure.pdf](#)**

[PIC32 Microcontroller Brochure.pdf](#)

[PIC32MZ EF Datasheet.pdf](#)

RoHs Status **ROHS3 Compliant**

Get a Quote

PIC32MZ2048EFM144-I/PH - Microchip Technology. New Original in Stock. Download Linear Technology PIC32MZ2048EFM144-I/PH datasheet/specifications on AllelcoElec.com.

Request a quote for PIC32MZ2048EFM144-I/PH, please send us email: info@allelco.com

Specifications

PIC32MZ2048EFM144-I/PH Tech Specifications

PIC32MZ2048EFM144-I/PH - Microchip Technology technical specifications, attributes, parameters

| Product Attribute | Attribute Value | Product Attribute | Attribute Value |
|----------------------------|--|-----------------------|---|
| Manufacturer | Microchip Technology | Oscillator Type | Internal |
| Voltage - Supply (Vcc/Vdd) | 2.1V ~ 3.6V | Operating Temperature | -40°C ~ 85°C (TA) |
| Supplier Device Package | 144-TQFP (16x16) | Number of I/O | 120 |
| Speed | 200MHz | Mounting Type | Surface Mount |
| Series | PIC® 32MZ | EEPROM Size | - |
| RAM Size | 512K x 8 | Data Converters | A/D 48x12b |
| Program Memory Type | FLASH | Core Size | 32-Bit Single-Core |
| Program Memory Size | 2MB (2M x 8) | Core Processor | MIPS32® M-Class |
| Peripherals | Brown-out Detect/Reset, DMA, I ² S, POR, PWM, WDT | Connectivity | CANbus, EBI/EMI, Ethernet, I ² C, PMP, SPI, SQI, UART/USART, USB OTG |
| Package / Case | 144-TQFP | Base Product Number | PIC32MZ2048EFM144 |
| Package | Tray | | |

Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology PIC32MZ2048EFM144-I/PH

| Product Attribute | | | | |
|----------------------------|---|---|---|---|
| Part Number | PIC32MZ2048EFM144-I/PH | PIC32MZ2048EFH144-I/PH | PIC32MZ2064DAG169-I/6J | PIC32MZ2048EFH144-I/PL |
| Manufacturer | Microchip Technology | Microchip Technology | Microchip Technology | Microchip Technology |
| Mounting Type | Surface Mount | Surface Mount | Surface Mount | Surface Mount |
| Voltage - Supply (Vcc/Vdd) | 2.1V ~ 3.6V | 2.1V ~ 3.6V | 1.7V ~ 3.6V | 2.1V ~ 3.6V |
| Package / Case | 144-TQFP | 144-TQFP | 169-LFBGA | 144-LQFP |
| Supplier Device Package | 144-TQFP (16x16) | 144-TQFP (16x16) | 169-LFBGA (11x11) | 144-LQFP (20x20) |
| Operating Temperature | -40°C ~ 85°C (TA) | -40°C ~ 85°C (TA) | -40°C ~ 85°C (TA) | -40°C ~ 85°C (TA) |
| Package | Tray | Tray | Tray | Tray |
| Connectivity | CANbus, EBI/EMI, Ethernet, I ² C, PMP, SPI, SQI, UART/USART, USB OTG | CANbus, EBI/EMI, Ethernet, I ² C, PMP, SPI, SQI, UART/USART, USB OTG | CANbus, EBI/EMI, Ethernet, I ² C, IrDA, LINbus, PMP, SPI, SQI, UART/USART, USB OTG | CANbus, EBI/EMI, Ethernet, I ² C, PMP, SPI, SQI, UART/USART, USB OTG |
| Program Memory Type | FLASH | FLASH | FLASH | FLASH |
| Core Processor | MIPS32® M-Class | MIPS32® M-Class | MIPS32® microAptiv™ | MIPS32® M-Class |
| EEPROM Size | - | - | - | - |
| Base Product Number | PIC32MZ2048EFM144 | PIC32MZ2048EFH144 | PIC32MZ2064DAG169 | PIC32MZ2048EFH144 |
| Data Converters | A/D 48x12b | A/D 48x12b | A/D 45x12b | A/D 48x12b |
| Oscillator Type | Internal | Internal | Internal | Internal |
| Series | PIC® 32MZ | PIC® 32MZ | PIC® 32MZ DA | PIC® 32MZ |
| Peripherals | Brown-out Detect/Reset, DMA, I ² S, POR, PWM, WDT | Brown-out Detect/Reset, DMA, I ² S, POR, PWM, WDT | Brown-out Detect/Reset, DMA, HLVD, I ² S, POR, PWM, WDT | Brown-out Detect/Reset, DMA, I ² S, POR, PWM, WDT |
| RAM Size | 512K x 8 | 512K x 8 | 640K x 8 | 512K x 8 |
| Program Memory Size | 2MB (2M x 8) | 2MB (2M x 8) | 2MB (2M x 8) | 2MB (2M x 8) |
| Number of I/O | 120 | 120 | 120 | 120 |
| Speed | 200MHz | 200MHz | 200MHz | 200MHz |
| Core Size | 32-Bit Single-Core | 32-Bit Single-Core | 32-Bit Single-Core | 32-Bit Single-Core |

PIC32MZ2048EFM144-I/PH Datasheet PDF

Download PIC32MZ2048EFM144-I/PH pdf datasheets and Microchip Technology documentation for PIC32MZ2048EFM144-I/PH - Microchip Technology.

Datasheets



PIC32 Microcontroller Brochure.pdf



PIC32MZ EF Datasheet.pdf

PCN Packaging

 Label and Packing Changes 23/Sep/2015.pdf

 MBB/Label Chgs 16/Nov/2018.pdf

HTML Datasheet


 PIC32 Microcontroller Brochure.pdf

PCN Design/Specification

 PIC32MZ 11/Dec/2019.pdf

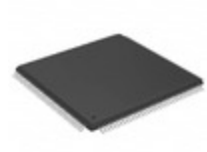
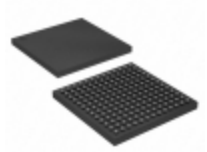


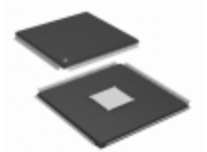
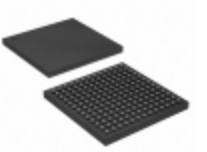


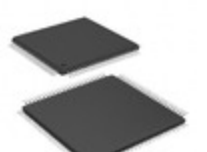

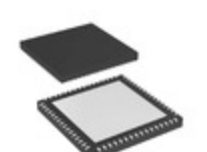




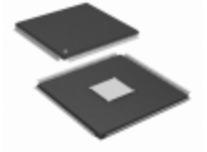

 PIC32MZ 22/Jun/2021.pdf

PCN Assembly/Origin

 Bond Wire Final Qual 6/Oct/2016.pdf

Customers Also Interested in

Recommended Products

| | | | | | |
|---|---|---|--|---|---|
|  |  |  |  |  |  |
| PIC32MZ2048EFH144-I/PH | PIC32MZ2064DAG169-I/6J | PIC32MZ2048EFH144-I/PL | PIC33EP512MU810-I/PT | PIC32MZ2064DAG176T-I/2J | PIC32MZ2064DAL169-V/HF |
| Microchip Technology IC MCU 32BIT 2MB FLASH 144TQFP | Microchip Technology IC MCU 32BIT 2MB FLASH 169LFBGA | Microchip Technology IC MCU 32BIT 2MB FLASH 144LQFP | ADI (Analog Devices, Inc.) | Microchip Technology IC MCU 32BIT 2MB FLASH 176LQFP | Microchip Technology IC MCU 32BIT 2MB FLASH 169LFBGA |
|  |  |  |  |  |  |
| PIC32MZ2048EFM100T-I/PF | PIC32MZ2048EFH144-250I/PH | PIC32MZ2048EFH100-I/PT | PIC32MZ2064DAG176-I/2J | PIC32MZ2048EFM064-I/MR | PIC32MZ2064DAH176T-I/2J |
| Microchip Technology IC MCU 32BIT 2MB FLASH 100TQFP | Microchip Technology IC MCU 32BIT 2MB FLASH 144TQFP | Microchip Technology IC MCU 32BIT 2MB FLASH 100TQFP | Microchip Technology IC MCU 32BIT 2MB FLASH 176LQFP | Microchip Technology IC MCU 32BIT 2MB FLASH 64QFN | Microchip Technology IC MCU 32BIT 2MB FLASH 176LQFP |
|  |  |  |  |  |  |
| PIC32MZ2048EFM100-E/GJX | PIC32MZ2048EFH144-E/PL | PIC32MZ2048EFM144-I/PL | PIC32MZ2048EFM100-I/PF | PIC32MZ2064DAH176-I/2J | PIC32MZ2048EFH100 |
| Microchip Technology IC MCU 32BIT 2MB FLASH 100TFBGA | Microchip Technology IC MCU 32BIT 2MB FLASH 144LQFP | Microchip Technology IC MCU 32BIT 2MB FLASH 144LQFP | Microchip Technology IC MCU 32BIT 2MB FLASH 100TQFP | Microchip Technology IC MCU 32BIT 2MB FLASH 176LQFP | Micrel / Microchip Technology |

Shipment

Delivery Time

In-stock items can be shipped within 24 hours. Some parts will be arranged for delivery within 1-2 days from the date all items arrive at our warehouse. And Allelco ships order once a day at about 17:00, except Sunday. Once the goods are shipped, the estimated delivery time depends on the shipping methods and Delivery destination. The table below shows are the logistic time for some common countries.

Delivery Cost

- > Use your express account for shipment if you have one.
 - > Use our account for the shipment. Refer to the table below for the approximate charges.
- (Different time frame / countries / package size has different price.)

Delivery Method

- > Global Common Shipment by DHL / UPS / FedEx / TNT / EMS / SF we support.
- > Others more shipping ways, please get in touch with your customer manager.

| Common Countries Logistic Time Reference | | |
|--|----------------|--------------------|
| Region | Country | Logistic Time(Day) |
| America | United States | 5 |
| | Brazil | 7 |
| Europe | Germany | 5 |
| | United Kingdom | 4 |
| | Italy | 5 |
| Oceania | Australia | 6 |
| | New Zealand | 7 |
| Asia | India | 6 |
| | Japan | 7 |
| Middle East | Israel | 6 |

| DHL & FedEx Shipment Charges Reference | |
|--|----------------------|
| Shipment charges(KG) | Reference DHL(USD\$) |
| 0.00kg-1.00kg | USD\$60.00 |
| 1.00kg-2.00kg | USD\$70.00 |
| 2.00kg-3.00kg | USD\$80.00 |


Note: The above table is for reference only. There may have some data bias for the uncontrollable factors. Contact us if you have any questions.


Payment Support


The payment method can be chosen from the methods shown below:
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card, PayPal.




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 Cost-Saving Procurement

 Fast Sourcing & Delivery

Contact us if you have any questions.

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Certifications & Memberships



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