

PIC32MZ0512EFE144-I/PL



Part Number: [PIC32MZ0512EFE144-I/PL](#)

Manufacturer: [Micrel / Microchip Technology](#)

Description: IC MCU 32BIT 512KB FLASH 144LQFP

Data sheet:  [PIC32MZ EF Datasheet](#)  
 [PIC32MZ EF Errata](#)  
 [PIC32 Microcontroller Brochure](#)

RoHs Status: Lead free / RoHS Compliant

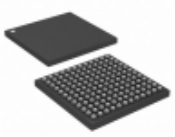
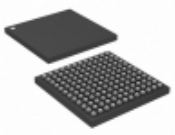
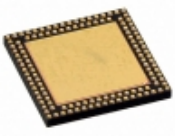
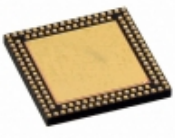
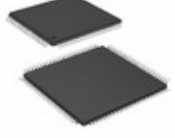
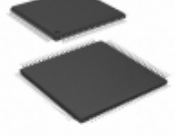
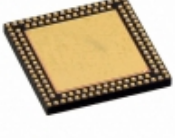
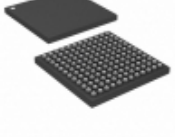
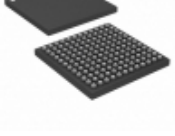
Ship From: Hong Kong

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Images are for reference only.  
See Product Specifications for product details.  
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Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                    |                                 |                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | PIC32MZ0512EFE144-I/PL                                                                             | Manufacturer                    | <a href="#">Micrel / Microchip Technology</a>                                                                      |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | IC MCU 32BIT 512KB FLASH 144LQFP                                                                   | Lead Free Status / RoHS Status  | Lead free / RoHS Compliant                                                                                         |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 8584 pcs                                                                                           | Data sheet                      | <a href="#">PIC32MZ EF Datasheet</a><br><a href="#">PIC32MZ EF Errata</a><br><a href="#">PIC32 Microcontroller</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <a href="#">Integrated Circuits (ICs)</a>                                                          | Voltage - Supply (Vcc/Vdd)      | <a href="#">Brochure</a><br>2.1 V ~ 3.6 V                                                                          |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 144-LQFP (20x20)                                                                                   | Speed                           | 200MHz                                                                                                             |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PIC® 32MZ                                                                                          | RAM Size                        | 128K x 8                                                                                                           |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | FLASH                                                                                              | Program Memory Size             | 512KB (512K x 8)                                                                                                   |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Brown-out Detect/Reset, DMA, I²S, POR, PWM, WDT                                                    | Packaging                       | Tray                                                                                                               |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 144-LQFP                                                                                           | Oscillator Type                 | Internal                                                                                                           |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -40°C ~ 85°C (TA)                                                                                  | Number of I/O                   | 120                                                                                                                |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3 (168 Hours)                                                                                      | Manufacturer Standard Lead Time | 7 Weeks                                                                                                            |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Lead free / RoHS Compliant                                                                         | EEPROM Size                     | -                                                                                                                  |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | MIPS32® M-Class PIC® 32MZ Microcontroller IC 32-Bit 200MHz 512KB (512K x 8) FLASH 144-LQFP (20x20) | Data Converters                 | A/D 48x12b                                                                                                         |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 32-Bit                                                                                             | Core Processor                  | MIPS32® M-Class                                                                                                    |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | EBI/EMI, Ethernet, I²C, PMP, SPI, SQI, UART/USART, USB OTG                                         | Base Part Number                | PIC32MZ0512                                                                                                        |
| Component-World.com is a Reliable Stocking Distributor of Electronic Components. We specialize in all Micrel / Microchip Technology series electronic components. We have 8584 pieces of Micrel / Microchip Technology PIC32MZ0512EFE144-I/PL in stock available now. Request a quote from electronics components distributor at Component-World.com, our sales team will contact you within 24 hours.<br>RFQ Email: <a href="mailto:info@Components-World.com">info@Components-World.com</a> |                                                                                                    |                                 |                                                                                                                    |

| RELATED PRODUCTS                                                                   |                                                                                                  |                                                              |                |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------|
|  | Part#: <a href="#">PIC32MZ0512EFE144T-I/JWX</a><br>Description: 512KB FLASH, 128KB RAM, NO CRYPT | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">PIC32MZ0512EFE144T-E/JWX</a><br>Description: 512KB FLASH, 128KB RAM, NO CRYPT | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">PIC32MZ0512EFE124T-I/TL</a><br>Description: IC MCU 32BIT 512KB FLASH 124VTLA  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">PIC32MZ0512EFE124-E/TL</a><br>Description: IC MCU 32BIT 512KB FLASH 124VTLA   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">PIC32MZ0512EFF064-I/MR</a><br>Description: IC MCU 32BIT 512KB FLASH 64QFN     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">PIC32MZ0512EFF064-E/MR</a><br>Description: IC MCU 32BIT 512KB FLASH 64QFN     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">PIC32MZ0512EFE100T-I/PF</a><br>Description: IC MCU 32BIT 512KB FLASH 100TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">PIC32MZ0512EFF064T-I/MR</a><br>Description: IC MCU 32BIT 512KB FLASH 64QFN    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">PIC32MZ0512EFE100T-I/PT</a><br>Description: IC MCU 32BIT 512KB FLASH 100TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">PIC32MZ0512EFE144T-I/PH</a><br>Description: IC MCU 32BIT 512KB FLASH 144TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">PIC32MZ0512EFE124-I/TL</a><br>Description: IC MCU 32BIT 512KB FLASH 124VTLA   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">PIC32MZ0512EFE144T-I/PL</a><br>Description: IC MCU 32BIT 512KB FLASH 144LQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">PIC32MZ0512EFE144-E/PL</a><br>Description: IC MCU 32BIT 512KB FLASH 144LQFP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">PIC32MZ0512EFE144-E/PH</a><br>Description: IC MCU 32BIT 512KB FLASH 144TQFP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">PIC32MZ0512EFE144-E/JWX</a><br>Description: FLASH, 128KB RAM                  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">PIC32MZ0512EFF064-E/PT</a><br>Description: IC MCU 32BIT 512KB FLASH 64TQFP    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">PIC32MZ0512EFF064-I/PT</a><br>Description: IC MCU 32BIT 512KB FLASH 64TQFP    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">PIC32MZ0512EFF064T-I/PT</a><br>Description: IC MCU 32BIT 512KB FLASH 64TQFP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |

Related keywords for PIC32MZ0512EFE144-I/PL

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