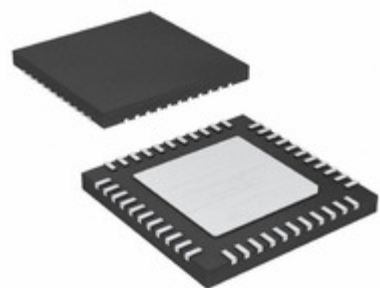


DSPIC33EP512MC504T-I/ML





Part Number:

DSPIC33EP512MC504T-I/ML

Manufacturer:

Micrel / Microchip Technology

Description:

IC MCU 16BIT 512KB FLASH 44QFN

Data sheet:

 [dsPIC\(33,24\)EPzzz\(GP,MC\)20x,50x](#)

 [16-bit Embedded Control Solutions](#)

 [dsPIC\(33,24\)EPzzz\(GP,MC\)20x,50x Errata](#)

RoHs Status:

Lead free / RoHS Compliant

Ship From:

Hong Kong

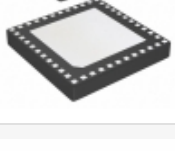
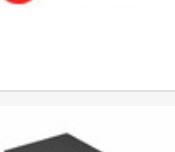
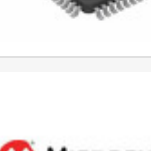
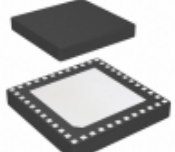
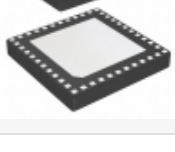
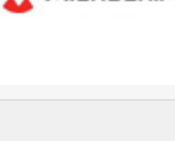
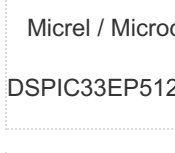
Shipment Way:

DHL/Fedex/TNT/UPS/EMS

Images are for reference only.  
See Product Specifications for product details.  
Buy DSPIC33EP512MC504T-I/ML with confidence from  
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Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                          |                                 |                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | DSPIC33EP512MC504T-I/ML                                                                  | Manufacturer                    | <a href="#">Micrel / Microchip Technology</a>                                                                                                           |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | IC MCU 16BIT 512KB FLASH 44QFN                                                           | Lead Free Status / RoHS Status  | Lead free / RoHS Compliant                                                                                                                              |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 22902 pcs                                                                                | Data sheet                      | <a href="#">dsPIC(33,24)EPzzz(GP,MC)20x,50x</a><br><a href="#">16-bit Embedded Control Solutions</a><br><a href="#">dsPIC(33,24)EPzzz(GP,MC)20x,50x</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <a href="#">Integrated Circuits (ICs)</a>                                                | Voltage - Supply (Vcc/Vdd)      | <a href="#">Errata</a><br>3 V ~ 3.6 V                                                                                                                   |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 44-QFN (8x8)                                                                             | Speed                           | 70 MIPs                                                                                                                                                 |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | dsPIC™ 33EP                                                                              | RAM Size                        | 24K x 16                                                                                                                                                |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | FLASH                                                                                    | Program Memory Size             | 512KB (170K x 24)                                                                                                                                       |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Brown-out Detect/Reset, DMA, Motor Control PWM, POR, PWM, WDT                            | Packaging                       | Tape & Reel (TR)                                                                                                                                        |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 44-VQFN Exposed Pad                                                                      | Oscillator Type                 | Internal                                                                                                                                                |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -40°C ~ 85°C (TA)                                                                        | Number of I/O                   | 35                                                                                                                                                      |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1 (Unlimited)                                                                            | Manufacturer Standard Lead Time | 10 Weeks                                                                                                                                                |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Lead free / RoHS Compliant                                                               | EEPROM Size                     | -                                                                                                                                                       |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | dsPIC dsPIC™ 33EP Microcontroller IC 16-Bit 70 MIPs 512KB (170K x 24) FLASH 44-QFN (8x8) | Data Converters                 | A/D 9x10b/12b                                                                                                                                           |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 16-Bit                                                                                   | Core Processor                  | dsPIC                                                                                                                                                   |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CANbus, I²C, IrDA, LINbus, QEI, SPI, UART/USART                                          | Base Part Number                | DSPIC33EP512MC504                                                                                                                                       |
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| RELATED PRODUCTS                                                                   |                                                                                                |                                                              |                |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------|
|  | Part#: <a href="#">DSPIC33EP512MC504-H/PT</a><br>Description: IC MCU 16BIT 512KB FLASH 44TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512MC504T-I/MV</a><br>Description: IC MCU 16BIT 512KB FLASH 48UQFN | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512MC506-E/MR</a><br>Description: IC MCU 16BIT 512KB FLASH 64QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512MC504T-I/PT</a><br>Description: IC MCU 16BIT 512KB FLASH 44TQFP | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512MC504T-E/TL</a><br>Description: IC MCU 16BIT 512KB FLASH 44VTLA | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512MC504-H/ML</a><br>Description: IC MCU 16BIT 512KB FLASH 44QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512MC506-E/PT</a><br>Description: IC MCU 16BIT 512KB FLASH 64TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512MC504T-E/ML</a><br>Description: IC MCU 16BIT 512KB FLASH 44QFN  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512MC504T-E/PT</a><br>Description: IC MCU 16BIT 512KB FLASH 44TQFP | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512MC506-H/PT</a><br>Description: IC MCU 16BIT 512KB FLASH 64TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512MC506-I/PT</a><br>Description: IC MCU 16BIT 512KB FLASH 64TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512MC504-I/TL</a><br>Description: IC MCU 16BIT 512KB FLASH 44VTLA  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512MC504-I/ML</a><br>Description: IC MCU 16BIT 512KB FLASH 44QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512MC506T-E/MR</a><br>Description: IC MCU 16BIT 512KB FLASH 64QFN  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512MC504T-I/TL</a><br>Description: IC MCU 16BIT 512KB FLASH 44VTLA | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512MC504-I/PT</a><br>Description: IC MCU 16BIT 512KB FLASH 44TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512MC506-I/MR</a><br>Description: IC MCU 16BIT 512KB FLASH 64QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512MC504-H/TL</a><br>Description: IC MCU 16BIT 512KB FLASH 44VTLA  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512MC504-I/MV</a><br>Description: IC MCU 16BIT 512KB FLASH 48UQFN  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512MC506-H/MR</a><br>Description: IC MCU 16BIT 512KB FLASH 64QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |

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