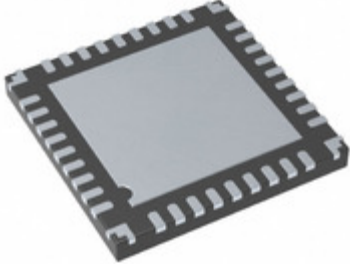


DSPIC33CH64MP503-E/M5





**Part Number:** [DSPIC33CH64MP503-E/M5](#)

**Manufacturer:** [Micrel / Microchip Technology](#)

**Description:** 16 BIT DSC, DUAL CORE, 64K FLASH

**Data sheet:**  [dsPIC33CH128MP508 Family](#)

**RoHs Status:** Lead free / RoHS Compliant

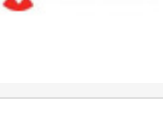
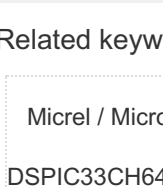
**Ship From:** Hong Kong

**Shipment Way:** DHL/Fedex/TNT/UPS/EMS

Images are for reference only.  
See Product Specifications for product details.  
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                              |                                 |                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------|-----------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | DSPIC33CH64MP503-E/M5                                                                                        | Manufacturer                    | <a href="#">Micrel / Microchip Technology</a> |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 16 BIT DSC, DUAL CORE, 64K FLASH                                                                             | Lead Free Status / RoHS Status  | Lead free / RoHS Compliant                    |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 27455 pcs                                                                                                    | Data sheet                      | <a href="#">dsPIC33CH128MP508 Family</a>      |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <a href="#">Integrated Circuits (ICs)</a>                                                                    | Voltage - Supply (Vcc/Vdd)      | 3 V ~ 3.6 V                                   |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-UQFN (5x5)                                                                                                | Speed                           | 180MHz, 200MHz                                |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | dsPIC™ 33CH                                                                                                  | RAM Size                        | 20K x 8                                       |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | FLASH/PRAM                                                                                                   | Program Memory Size             | 88KB (88K x 8)                                |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Brown-out Detect/Reset, DMA, Motor Control PWM, POR, PWM, QEI, WDT                                           | Packaging                       | Tube                                          |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-UQFN Exposed Pad                                                                                          | Oscillator Type                 | Internal                                      |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -40°C ~ 125°C (TA)                                                                                           | Number of I/O                   | 27                                            |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1 (Unlimited)                                                                                                | Manufacturer Standard Lead Time | 16 Weeks                                      |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Lead free / RoHS Compliant                                                                                   | EEPROM Size                     | -                                             |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | dsPIC dsPIC™ 33CH Microcontroller IC 16-Bit Dual-Core 180MHz, 200MHz 88KB (88K x 8) FLASH/PRAM 36-UQFN (5x5) | Data Converters                 | A/D 32x12b, D/A 4x12b                         |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 16-Bit Dual-Core                                                                                             | Core Processor                  | dsPIC                                         |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CANbus, I²C, IrDA, LINbus, SPI, UART/USART                                                                   |                                 |                                               |
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| RELATED PRODUCTS                                                                   |                                                                                                |                                                              |                     |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------|---------------------|
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|  | Part#: <a href="#">DSPIC33CH64MP505-I/PT</a><br>Description: 16 BIT DSC, DUAL CORE, 64K FLASH  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">DSPIC33CH64MP502-I/SS</a><br>Description: 16 BIT DSC, DUAL CORE, 64K FLASH  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">DSPIC33CH64MP506T-I/MR</a><br>Description: 16 BIT DSC, DUAL CORE, 64K FLASH | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">DSPIC33CH64MP506-I/PT</a><br>Description: 16 BIT DSC, DUAL CORE, 64K FLASH  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">DSPIC33CH64MP502-E/SS</a><br>Description: 16 BIT DSC, DUAL CORE, 64K FLASH  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">DSPIC33CH64MP502T-I/2N</a><br>Description: 16 BIT DSC, DUAL CORE, 64K FLASH | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">DSPIC33CH64MP506-E/PT</a><br>Description: 16 BIT DSC, DUAL CORE, 64K FLASH  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">DSPIC33CH64MP208-E/PT</a><br>Description: 16 BIT DSC, DUAL CORE, 64K FLASH  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">DSPIC33CH64MP503T-I/M5</a><br>Description: 16 BIT DSC, DUAL CORE, 64K FLASH | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">DSPIC33CH64MP208-I/PT</a><br>Description: 16 BIT DSC, DUAL CORE, 64K FLASH  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">DSPIC33CH64MP506-I/MR</a><br>Description: 16 BIT DSC, DUAL CORE, 64K FLASH  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">DSPIC33CH64MP502-I/2N</a><br>Description: 16 BIT DSC, DUAL CORE, 64K FLASH  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">DSPIC33CH64MP502T-I/SS</a><br>Description: 16 BIT DSC, DUAL CORE, 64K FLASH | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <a href="#">RFQ</a> |

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