

DSPIC33EP128GP504-I/ML





Part Number: [DSPIC33EP128GP504-I/ML](#)

Manufacturer: [Micrel / Microchip Technology](#)

Description: IC MCU 16BIT 128KB FLASH 44QFN

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

RoHs Status: Lead free / RoHS Compliant

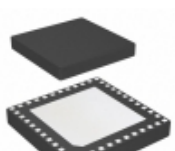
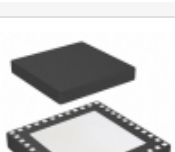
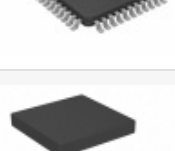
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                            |                                  |                                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | DSPIC33EP128GP504-I/ML                     | Manufacturer                     | <a href="#">Micrel / Microchip Technology</a>                                                             |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | IC MCU 16BIT 128KB FLASH 44QFN             | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 31823 pcs                                  | Data sheet                       | <a href="#">dsPIC(33,24)EPzzz(GP,MC)20x,50x</a><br><a href="#">dsPIC(33,24)EPzzz(GP,MC)20x,50x Errata</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <a href="#">Integrated Circuits (ICs)</a>  | Voltage - Supply (Vcc/Vdd)       | 3 V ~ 3.6 V                                                                                               |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 44-QFN (8x8)                               | Speed                            | 70 MIPs                                                                                                   |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | dsPIC™ 33EP                                | RAM Size                         | 8K x 16                                                                                                   |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | FLASH                                      | Program Memory Size              | 128KB (43K x 24)                                                                                          |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Brown-out Detect/Reset, DMA, POR, PWM, WDT | Packaging                        | Tube                                                                                                      |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 44-VQFN Exposed Pad                        | Other Names                      | DSPIC33EP128GP504IML                                                                                      |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 12 Weeks                                   | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -                                          | Detailed Description             | dsPIC dsPIC™ 33EP Microcontroller IC 16-Bit 70 MIPs 128KB (43K x 24) FLASH 44-QFN (8x8)                   |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A/D 9x10b/12b                              | Core Size                        | 16-Bit                                                                                                    |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | dsPIC                                      | Connectivity                     | CANbus, I²C, IrDA, LINbus, SPI, UART/USART                                                                |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DSPIC33EP128GP504                          |                                  |                                                                                                           |
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| RELATED PRODUCTS                                                                   |                                                                                                |                                                              |                |
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|  | Part#: <a href="#">DSPIC33EP128GP502T-I/SO</a><br>Description: IC MCU 16BIT 128KB FLASH 28SOIC | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP128GP504T-I/MV</a><br>Description: IC MCU 16BIT 128KB FLASH 48UQFN | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
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