

DSPIC33EP128MC504T-I/TL





Part Number: [DSPIC33EP128MC504T-I/TL](#)

Manufacturer: [Micrel / Microchip Technology](#)

Description: IC MCU 16BIT 128KB FLASH 44VTLA

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

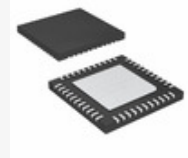
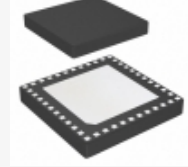
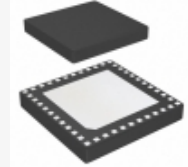
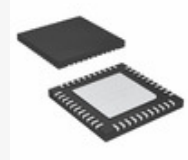
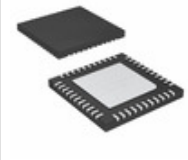
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Images are for reference only.  
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Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                          |                                 |                                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------|----------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | DSPIC33EP128MC504T-I/TL                                                                  | Manufacturer                    | <a href="#">Micrel / Microchip Technology</a>                                                      |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | IC MCU 16BIT 128KB FLASH 44VTLA                                                          | Lead Free Status / RoHS Status  | Lead free / RoHS Compliant                                                                         |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 32044 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</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-VTLA (6x6)                                                                            | 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, Motor Control PWM, POR, PWM, WDT                            | Packaging                       | Tape & Reel (TR)                                                                                   |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 44-VFTLA Exposed Pad                                                                     | Oscillator Type                 | Internal                                                                                           |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -40°C ~ 85°C (TA)                                                                        | Number of I/O                   | 35                                                                                                 |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3 (168 Hours)                                                                            | Manufacturer Standard Lead Time | 11 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-VTLA (6x6) | 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                | DSPIC33EP128MC504                                                                                  |
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| RELATED PRODUCTS                                                                   |                                                                                                |                                                              |                |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------|
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Related keywords for DSPIC33EP128MC504T-I/TL

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