

DSPIC33EP256GP506T-I/PT



Part Number: [DSPIC33EP256GP506T-I/PT](#)

Manufacturer: [Micrel / Microchip Technology](#)

Description: IC MCU 16BIT 256KB FLASH 64TQFP

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

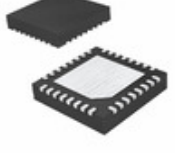
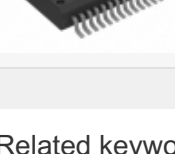
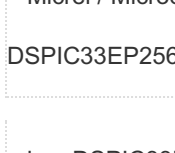
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                            |                                |                                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | DSPIC33EP256GP506T-I/PT                    | Manufacturer                   | <a href="#">Micrel / Microchip Technology</a>                                                             |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | IC MCU 16BIT 256KB FLASH 64TQFP            | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                                |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 5808 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 64-TQFP (10x10)                            | Speed                          | 70 MIPs                                                                                                   |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | dsPIC™ 33EP                                | RAM Size                       | 16K x 16                                                                                                  |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | FLASH                                      | Program Memory Size            | 256KB (85.5K x 24)                                                                                        |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Brown-out Detect/Reset, DMA, POR, PWM, WDT | Packaging                      | Tape & Reel (TR)                                                                                          |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 64-TQFP                                    | Oscillator Type                | Internal                                                                                                  |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -40°C ~ 85°C (TA)                          | Number of I/O                  | 53                                                                                                        |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1 (Unlimited)                              | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                                |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -                                          | Detailed Description           | dsPIC dsPIC™ 33EP Microcontroller IC 16-Bit 70 MIPs 256KB (85.5K x 24) FLASH 64-TQFP (10x10)              |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A/D 16x10b/12b                             | Core Size                      | 16-Bit                                                                                                    |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | dsPIC                                      | Connectivity                   | CANbus, I²C, IrDA, LINbus, SPI, UART/USART                                                                |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DSPIC33EP256GP506                          |                                |                                                                                                           |
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| RELATED PRODUCTS                                                                   |                                                                                                |                                                              |                |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------|
|  | Part#: <a href="#">DSPIC33EP256MC202-E/SO</a><br>Description: IC MCU 16BIT 256KB FLASH 28SOIC  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP256GP506T-I/MR</a><br>Description: IC MCU 16BIT 256KB FLASH 64QFN  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP256GP506T-E/PT</a><br>Description: IC MCU 16BIT 256KB FLASH 64TQFP | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP256GP506-E/PT</a><br>Description: IC MCU 16BIT 256KB FLASH 64TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP256GP506-H/PT</a><br>Description: IC MCU 16BIT 256KB FLASH 64TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP256MC202-E/MM</a><br>Description: IC MCU 16BIT 256KB FLASH 28QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP256GP506T-E/MR</a><br>Description: IC MCU 16BIT 256KB FLASH 64QFN  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP256MC202-I/SO</a><br>Description: IC MCU 16BIT 256KB FLASH 28SOIC  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP256GP504T-I/TL</a><br>Description: IC MCU 16BIT 256KB FLASH 44VTLA | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP256MC202-H/SP</a><br>Description: IC MCU 16BIT 256KB FLASH 28SDIP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP256GP506-E/MR</a><br>Description: IC MCU 16BIT 256KB FLASH 64QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP256GP506-H/MR</a><br>Description: IC MCU 16BIT 256KB FLASH 64QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP256MC202-E/SP</a><br>Description: IC MCU 16BIT 256KB FLASH 28SDIP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP256MC202-H/MM</a><br>Description: IC MCU 16BIT 256KB FLASH 28QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP256MC202-E/SS</a><br>Description: IC MCU 16BIT 256KB FLASH 28SSOP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP256GP506-I/PT</a><br>Description: IC MCU 16BIT 256KB FLASH 64TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP256GP506-I/MR</a><br>Description: IC MCU 16BIT 256KB FLASH 64QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
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Related keywords for DSPIC33EP256GP506T-I/PT

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