

DSPIC33CK32MP506T-I/PT



Part Number: [DSPIC33CK32MP506T-I/PT](#)

Manufacturer: [Micrel / Microchip Technology](#)

Description: 16 BIT DSC, 32KB FLASH, 8KB RAM,

Data sheet:  
 [dsPIC33CK256MP508 Family Programming Specification](#)  
 [dsPIC33CK256MP508 Family Datasheet](#)

RoHs Status:

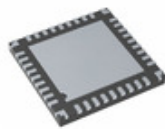
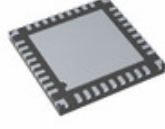
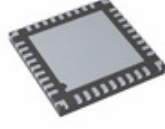
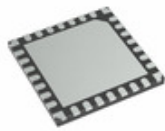
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Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                         |                                  |                                                                                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | DSPIC33CK32MP506T-I/PT                                                                  | Manufacturer                     | <a href="#">Micrel / Microchip Technology</a>                                                                            |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 16 BIT DSC, 32KB FLASH, 8KB RAM,                                                        | Lead Free Status / RoHS Status   |                                                                                                                          |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 31922 pcs                                                                               | Data sheet                       | <a href="#">dsPIC33CK256MP508 Family Programming Specification</a><br><a href="#">dsPIC33CK256MP508 Family Datasheet</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <a href="#">Integrated Circuits (ICs)</a>                                               | Voltage - Supply (Vcc/Vdd)       | 3 V ~ 3.6 V                                                                                                              |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 64-TQFP (10x10)                                                                         | Speed                            | 100MHz                                                                                                                   |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | dsPIC™ 33CK                                                                             | RAM Size                         | 8K x 8                                                                                                                   |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | FLASH                                                                                   | Program Memory Size              | 32KB (32K x 8)                                                                                                           |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Brown-out Detect/Reset, DMA, Motor Control PWM, POR, PWM, QEI, WDT                      | Packaging                        | Original-Reel®                                                                                                           |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 64-TQFP                                                                                 | Other Names                      | DSPIC33CK32MP506T-I/PTDKR                                                                                                |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Internal                                                                                | Operating Temperature            | -40°C ~ 85°C (TA)                                                                                                        |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 53                                                                                      | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                                            |
| Manufacturer Standard Lead Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 18 Weeks                                                                                | EEPROM Size                      | -                                                                                                                        |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | dsPIC dsPIC™ 33CK Microcontroller IC 16-Bit 100MHz 32KB (32K x 8) FLASH 64-TQFP (10x10) | Data Converters                  | A/D 20x12b, D/A 3x12b                                                                                                    |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 16-Bit                                                                                  | Core Processor                   | dsPIC                                                                                                                    |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CANbus, I²C, IrDA, LINbus, SPI, UART/USART                                              |                                  |                                                                                                                          |
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| RELATED PRODUCTS                                                                   |                                                                                                |                                                              |                |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------|
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|  | Part#: <a href="#">DSPIC33CK32MP506-E/PT</a><br>Description: 16 BIT DSC, 32KB FLASH, 8KB RAM,  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33CK64MP203-I/M5</a><br>Description: 16 BIT DSC, 64KB FLASH, 8KB RAM,  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">DSPIC33CK64MP202T-I/SS</a><br>Description: 16 BIT DSC, 64KB FLASH, 8KB RAM, | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">DSPIC33CK32MP506T-I/MR</a><br>Description: 16 BIT DSC, 32KB FLASH, 8KB RAM, | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">DSPIC33CK64MP203-E/M5</a><br>Description: 16 BIT DSC, 64KB FLASH, 8KB RAM,  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">DSPIC33CK64MP202-I/2N</a><br>Description: 16 BIT DSC, 64KB FLASH, 8KB RAM,  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33CK32MP505T-I/PT</a><br>Description: 16 BIT DSC, 32KB FLASH, 8KB RAM, | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
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