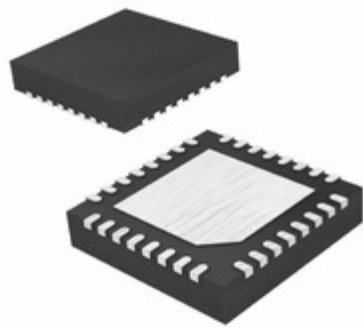


DSPIC33FJ16GS502-I/MM



Images are for reference only.  
See Product Specifications for product details.  
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**Part Number:** [DSPIC33FJ16GS502-I/MM](#)

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

**Description:** IC MCU 16BIT 16KB FLASH 28QFN

**Data sheet:**  [dsPIC33FJ\(0,1\)6GSx01,x02, x04 Family Errata & Data](#)  
 [dsPIC33FJx6GS101,x02,x04 Errata & Datasheet](#)  
 [16-bit Embedded Control Solutions](#)  
 [dsPIC33FJ06GS101/X02, dsPIC33FJ16GSX02/X04](#)

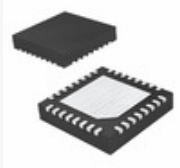
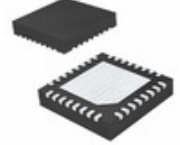
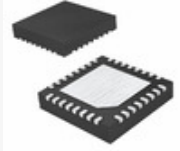
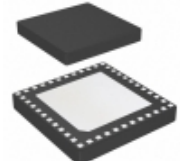
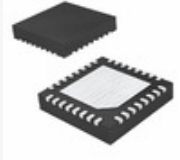
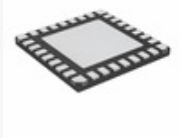
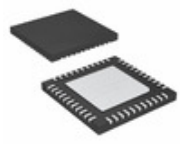
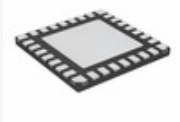
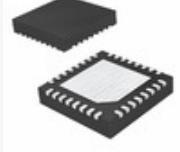
**RoHs Status:** Lead free / RoHS Compliant

**Ship From:** Hong Kong

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

Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                           |                                  |                                                                                                                                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | DSPIC33FJ16GS502-I/MM                     | Manufacturer                     | <a href="#">Micrel / Microchip Technology</a>                                                                                                                                                                                                                       |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | IC MCU 16BIT 16KB FLASH 28QFN             | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                                                                                                                                                          |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 29592 pcs                                 | Data sheet                       | <a href="#">dsPIC33FJ(0,1)6GSx01,x02, x04 Family Errata &amp; Data</a><br><a href="#">dsPIC33FJx6GS101,x02,x04 Errata &amp; Datasheet Clarif</a><br><a href="#">16-bit Embedded Control Solutions</a><br><a href="#">dsPIC33FJ06GS101/X02, dsPIC33FJ16GSX02/X04</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply (Vcc/Vdd)       | 3 V ~ 3.6 V                                                                                                                                                                                                                                                         |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 28-QFN-S (6x6)                            | Speed                            | 40 MIPs                                                                                                                                                                                                                                                             |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | dsPIC™ 33F                                | RAM Size                         | 2K x 8                                                                                                                                                                                                                                                              |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | FLASH                                     | Program Memory Size              | 16KB (16K x 8)                                                                                                                                                                                                                                                      |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Brown-out Detect/Reset, POR, PWM, WDT     | Packaging                        | Tube                                                                                                                                                                                                                                                                |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 28-VQFN Exposed Pad                       | Other Names                      | DSPIC33FJ16GS502IMM                                                                                                                                                                                                                                                 |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Internal                                  | Operating Temperature            | -40°C ~ 85°C (TA)                                                                                                                                                                                                                                                   |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 21                                        | 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™ 33F Microcontroller IC 16-Bit 40 MIPs 16KB (16K x 8) FLASH 28-QFN-S (6x6)                                                                                                                                                                              |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | A/D 16x10b, D/A 4x10b                     | Core Size                        | 16-Bit                                                                                                                                                                                                                                                              |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | dsPIC                                     | Connectivity                     | I²C, IrDA, LINbus, SPI, UART/USART                                                                                                                                                                                                                                  |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DSPIC33FJ16GS502                          |                                  |                                                                                                                                                                                                                                                                     |
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| RELATED PRODUCTS                                                                   |                                                                                                |                                                              |                |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------|
|  | Part#: <a href="#">DSPIC33FJ16GS502-50I/SP</a><br>Description: IC MCU 16BIT 16KB FLASH 28SDIP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33FJ16GS502-H/MM</a><br>Description: IC MCU 16BIT 16KB FLASH 28QFN     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33FJ16GS502-I/SO</a><br>Description: IC MCU 16BIT 16KB FLASH 28SOIC    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33FJ16GS502-E/SO</a><br>Description: IC MCU 16BIT 16KB FLASH 28SOIC    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33FJ16GS502-50I/MM</a><br>Description: IC MCU 16BIT 16KB FLASH 28QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33FJ16GS502-E/SP</a><br>Description: IC MCU 16BIT 16KB FLASH 28SDIP    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33FJ16GS504-50I/PT</a><br>Description: IC MCU 16BIT 16KB FLASH 44TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33FJ16GS502-E/MM</a><br>Description: IC MCU 16BIT 16KB FLASH 28QFN     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33FJ16GS502-H/SP</a><br>Description: IC MCU 16BIT 16KB FLASH 28SDIP    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33FJ16GS502-I/SP</a><br>Description: IC MCU 16BIT 16KB FLASH 28SDIP    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33FJ16GS504-50I/TL</a><br>Description: IC MCU 16BIT 16KB FLASH 44VTLA  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33FJ16GS502T-50I/MM</a><br>Description: IC MCU 16BIT 16KB FLASH 28QFN  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33FJ16GS502-H/SO</a><br>Description: IC MCU 16BIT 16KB FLASH 28SOIC    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33FJ16GS502T-E/MX</a><br>Description: IC MCU 16BIT 16KB FLASH 28QFN    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33FJ16GS502T-50I/SO</a><br>Description: IC MCU 16BIT 16KB FLASH 28SOIC | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33FJ16GS502T-I/SO</a><br>Description: IC MCU 16BIT 16KB FLASH 28SOIC   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33FJ16GS504-50I/ML</a><br>Description: IC MCU 16BIT 16KB FLASH 44QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33FJ16GS502-E/MX</a><br>Description: IC MCU 16BIT 16KB FLASH 28UQFN    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33FJ16GS502-50I/SO</a><br>Description: IC MCU 16BIT 16KB FLASH 28SOIC  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33FJ16GS502T-I/MM</a><br>Description: IC MCU 16BIT 16KB FLASH 28QFN    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |

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