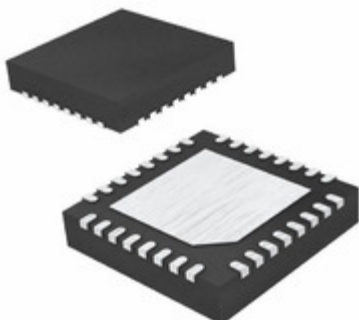


DSPIC33EP16GS502-E/2N





Part Number:

DSPIC33EP16GS502-E/2N

Manufacturer:

Micrel / Microchip Technology

Description:

IC MCU 16BIT 16KB FLASH 28UQFN

Data sheet:

 [dsPIC33EPxxGS50x Family](#)

 [dsPIC33EPXXGS50X Family Errata](#)

RoHs Status:

Lead free / RoHS Compliant

Ship From:

Hong Kong

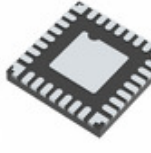
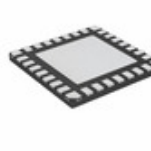
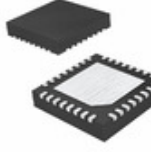
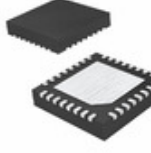
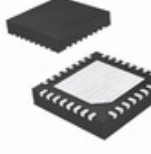
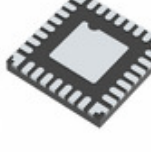
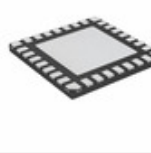
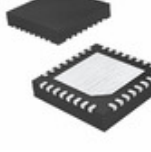
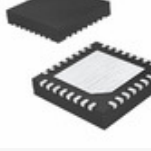
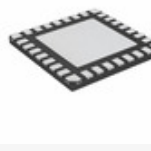
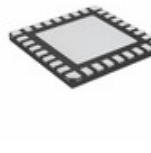
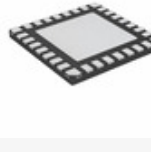
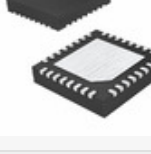
Shipment Way:

DHL/Fedex/TNT/UPS/EMS

Images are for reference only.  
See Product Specifications for product details.  
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Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                              |                                 |                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | DSPIC33EP16GS502-E/2N                                                                                        | Manufacturer                    | <a href="#">Micrel / Microchip Technology</a>                                      |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | IC MCU 16BIT 16KB FLASH 28UQFN                                                                               | Lead Free Status / RoHS Status  | Lead free / RoHS Compliant                                                         |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 31335 pcs                                                                                                    | Data sheet                      | <a href="#">dsPIC33EPxxGS50x Family</a><br><a href="#">dsPIC33EPXXGS50X Family</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                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 28-UQFN (6x6)                                                                                                | Speed                           | 60 MIPs                                                                            |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Automotive, AEC-Q100, dsPIC™ 33EP                                                                            | 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-UQFN Exposed Pad                                                                                          | Oscillator Type                 | Internal                                                                           |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -40°C ~ 125°C (TA)                                                                                           | Number of I/O                   | 21                                                                                 |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3 (168 Hours)                                                                                                | Manufacturer Standard Lead Time | 9 Weeks                                                                            |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Lead free / RoHS Compliant                                                                                   | EEPROM Size                     | -                                                                                  |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | dsPIC Automotive, AEC-Q100, dsPIC™ 33EP Microcontroller IC 16-Bit 60 MIPs 16KB (16K x 8) FLASH 28-UQFN (6x6) | Data Converters                 | A/D 12x12b, D/A 1x12b                                                              |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 16-Bit                                                                                                       | Core Processor                  | dsPIC                                                                              |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | I²C, IrDA, LINbus, SPI, UART/USART                                                                           |                                 |                                                                                    |
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| RELATED PRODUCTS                                                                   |                                                                                              |                                                              |                |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------|
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|  | Part#: <a href="#">DSPIC33EP16GS202T-E/SO</a><br>Description: IC MCU 16BIT 16KB FLASH 28SOIC | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP16GS202T-I/M6</a><br>Description: IC MCU 16BIT 16KB FLASH 28UQFN | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP16GS202T-I/MX</a><br>Description: IC MCU 16BIT 16KB FLASH 28UQFN | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP16GS502T-E/2N</a><br>Description: IC MCU 16BIT 16KB FLASH 28UQFN | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP16GS502-I/2N</a><br>Description: IC MCU 16BIT 16KB FLASH 28UQFN  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP16GS502-I/MM</a><br>Description: IC MCU 16BIT 16KB FLASH 28QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP16GS202T-E/SS</a><br>Description: IC MCU 16BIT 16KB FLASH 28SSOP | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP16GS202T-E/M6</a><br>Description: IC MCU 16BIT 16KB FLASH 28UQFN | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP16GS502-I/MX</a><br>Description: IC MCU 16BIT 16KB FLASH 28UQFN  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP16GS502T-E/MM</a><br>Description: IC MCU 16BIT 16KB FLASH 28QFN  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP16GS202T-I/MM</a><br>Description: IC MCU 16BIT 16KB FLASH 28QFN  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP16GS202T-E/MM</a><br>Description: IC MCU 16BIT 16KB FLASH 28QFN  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">DSPIC33EP16GS502-I/SO</a><br>Description: IC MCU 16BIT 16KB FLASH 28SOIC  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP16GS502-E/SO</a><br>Description: IC MCU 16BIT 16KB FLASH 28SOIC  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP16GS502T-E/MX</a><br>Description: IC MCU 16BIT 16KB FLASH 28UQFN | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
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