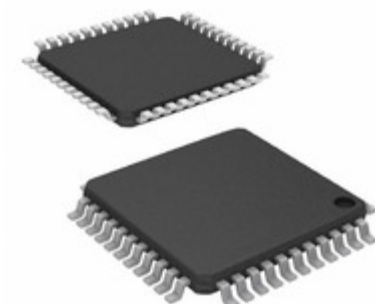


DSPIC33EP512GM604-H/PT





Part Number: [DSPIC33EP512GM604-H/PT](#)

Manufacturer: [Micrel / Microchip Technology](#)

Description: IC MCU 16BIT 512KB FLASH 44TQFP

Data sheet:  [dsPIC33EPyyyGM3yy,6yy,7yy](#)  
 [dsPIC33EPyyyGM3,6,7 Family Errata](#)

RoHs Status: Lead free / RoHS Compliant

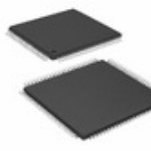
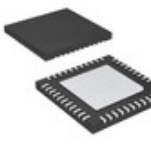
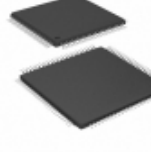
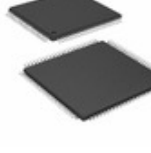
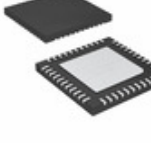
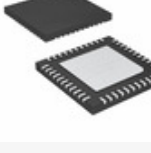
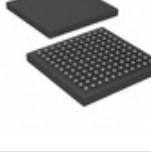
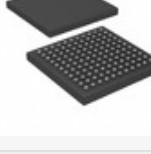
Ship From: Hong Kong

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

Images are for reference only.  
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Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                 |                                |                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | DSPIC33EP512GM604-H/PT                                                          | Manufacturer                   | <a href="#">Micrel / Microchip Technology</a>                                                  |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | IC MCU 16BIT 512KB FLASH 44TQFP                                                 | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                     |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 5734 pcs                                                                        | Data sheet                     | <a href="#">dsPIC33EPyyyGM3yy,6yy,7yy</a><br><a href="#">dsPIC33EPyyyGM3,6,7 Family Errata</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <a href="#">Integrated Circuits (ICs)</a>                                       | Voltage - Supply (Vcc/Vdd)-    |                                                                                                |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 44-TQFP (10x10)                                                                 | Speed                          | -                                                                                              |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | dsPIC™ 33EP                                                                     | RAM Size                       | 48K x 8                                                                                        |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | FLASH                                                                           | Program Memory Size            | 512KB (170K x 24)                                                                              |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Brown-out Detect/Reset, DMA, I <sup>2</sup> S, Motor Control PWM, POR, PWM, WDT | Packaging                      | Tray                                                                                           |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 44-TQFP                                                                         | Oscillator Type                | Internal                                                                                       |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -40°C ~ 150°C (TA)                                                              | Number of I/O                  | 35                                                                                             |
| 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 512KB (170K x 24) FLASH 44-TQFP (10x10)            |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | A/D 18x10b/12b                                                                  | Core Size                      | 16-Bit                                                                                         |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | dsPIC                                                                           | Connectivity                   | CANbus, I <sup>2</sup> C, IrDA, LINbus, QEI, SPI, UART/USART                                   |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DSPIC33EP512GM604                                                               |                                |                                                                                                |
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| RELATED PRODUCTS                                                                   |                                                                                                 |                                                              |                |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------|
|  | Part#: <a href="#">DSPIC33EP512GM310-I/PP</a><br>Description: IC MCU 16BIT 512KB FLASH 100TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512GM604-E/ML</a><br>Description: IC MCU 16BIT 512KB FLASH 44QFN    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512GM706-I/PT</a><br>Description: IC MCU 16BIT 512KB FLASH 64TQFP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512GM604-I/ML</a><br>Description: IC MCU 16BIT 512KB FLASH 44QFN    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512GM706-H/PT</a><br>Description: IC MCU 16BIT 512KB FLASH 64TQFP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512GM604-E/PT</a><br>Description: IC MCU 16BIT 512KB FLASH 44TQFP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512GM706-H/MR</a><br>Description: IC MCU 16BIT 512KB FLASH 64QFN    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512GM706-I/MR</a><br>Description: IC MCU 16BIT 512KB FLASH 64QFN    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512GM310-I/PT</a><br>Description: IC MCU 16BIT 512KB FLASH 100TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512GM706-E/PT</a><br>Description: IC MCU 16BIT 512KB FLASH 64TQFP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512GM706-E/MR</a><br>Description: IC MCU 16BIT 512KB FLASH 64QFN    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">DSPIC33EP512GM310T-I/PP</a><br>Description: IC MCU 16BIT 512KB FLASH 100TQFP | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512GM604-I/PT</a><br>Description: IC MCU 16BIT 512KB FLASH 44TQFP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512GM604-H/ML</a><br>Description: IC MCU 16BIT 512KB FLASH 44QFN    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512GM604T-I/ML</a><br>Description: IC MCU 16BIT 512KB FLASH 44QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512GM310T-I/PT</a><br>Description: IC MCU 16BIT 512KB FLASH 100TQFP | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512GM604T-I/PT</a><br>Description: IC MCU 16BIT 512KB FLASH 44TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512GM310-I/BG</a><br>Description: IC MCU 16BIT 512KB FLASH 121BGA   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512GM310T-I/BG</a><br>Description: IC MCU 16BIT 512KB FLASH 121BGA  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |

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