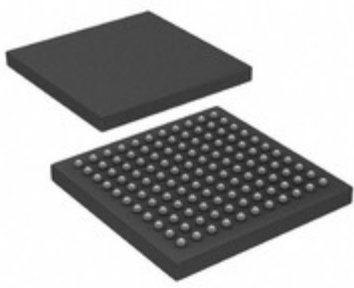


DSPIC33EP512GM710T-I/BG





Part Number: [DSPIC33EP512GM710T-I/BG](#)

Manufacturer: [Micrel / Microchip Technology](#)

Description: IC MCU 16BIT 512KB FLASH 121BGA

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

RoHs Status: Lead free / RoHS Compliant

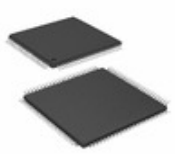
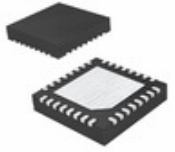
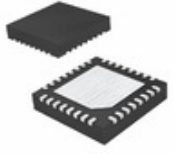
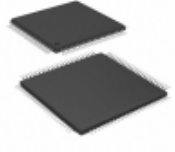
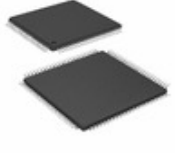
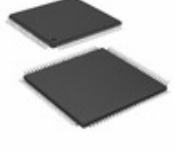
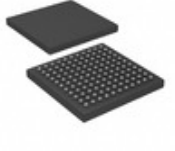
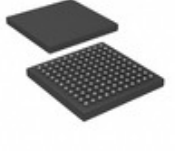
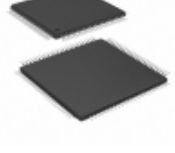
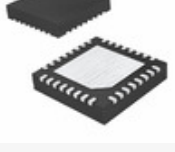
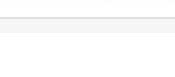
Ship From: Hong Kong

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

Images are for reference only.  
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                               |                                  |                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | DSPIC33EP512GM710T-I/BG                                                                       | Manufacturer                     | <a href="#">Micrel / Microchip Technology</a>                                                  |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | IC MCU 16BIT 512KB FLASH 121BGA                                                               | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                     |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 17826 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>                                                     | Supplier Device Package          | 121-TFBGA (10x10)                                                                              |
| Speed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 70 MIPs                                                                                       | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Tape & Reel (TR)                                                                              | Package / Case                   | 121-TFBGA                                                                                      |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Internal                                                                                      | Operating Temperature            | -40°C ~ 85°C (TA)                                                                              |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 85                                                                                            | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                  |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Lead free / RoHS Compliant                                                                    | EEPROM Size                      | -                                                                                              |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | dsPIC dsPIC™ 33EP Microcontroller IC 16-Bit 70 MIPs 512KB (170K x 24) FLASH 121-TFBGA (10x10) | Data Converters                  | A/D 49x10b/12b                                                                                 |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 16-Bit                                                                                        | Core Processor                   | dsPIC                                                                                          |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CANbus, I <sup>2</sup> C, IrDA, LINbus, QEI, SPI, UART/USART                                  |                                  |                                                                                                |
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|  | Part#: <a href="#">DSPIC33EP512GP502-E/MM</a><br>Description: IC MCU 16BIT 512KB FLASH 28QFN    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512GP502-H/MM</a><br>Description: IC MCU 16BIT 512KB FLASH 28QFN    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512GM710-E/PT</a><br>Description: IC MCU 16BIT 512KB FLASH 100TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512GP502-I/SO</a><br>Description: IC MCU 16BIT 512KB FLASH 28SOIC   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512GM710-H/PF</a><br>Description: IC MCU 16BIT 512KB FLASH 100TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512GM710T-I/PF</a><br>Description: IC MCU 16BIT 512KB FLASH 100TQFP | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512GM710-I/BG</a><br>Description: IC MCU 16BIT 512KB FLASH 121BGA   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512GM710-E/BG</a><br>Description: IC MCU 16BIT 512KB FLASH 121BGA   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512GP502-E/SO</a><br>Description: IC MCU 16BIT 512KB FLASH 28SOIC   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512GP502-H/SO</a><br>Description: IC MCU 16BIT 512KB FLASH 28SOIC   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512GM710-I/PT</a><br>Description: IC MCU 16BIT 512KB FLASH 100TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512GM710-H/PT</a><br>Description: IC MCU 16BIT 512KB FLASH 100TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512GP502-I/MM</a><br>Description: IC MCU 16BIT 512KB FLASH 28QFN    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512GM706T-I/PT</a><br>Description: IC MCU 16BIT 512KB FLASH 64TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512GM710-E/PF</a><br>Description: IC MCU 16BIT 512KB FLASH 100TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512GM710T-I/PT</a><br>Description: IC MCU 16BIT 512KB FLASH 100TQFP | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512GP502-E/SP</a><br>Description: IC MCU 16BIT 512KB FLASH 28SDIP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512GM710-H/BG</a><br>Description: IC MCU 16BIT 512KB FLASH 121BGA   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512GP502-H/SP</a><br>Description: IC MCU 16BIT 512KB FLASH 28SDIP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |

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