

DSPIC33EP512MU814-I/PH



Part Number: [DSPIC33EP512MU814-I/PH](#)

Manufacturer: [Micrel / Microchip Technology](#)

Description: IC MCU 16BIT 512KB FLASH 144TQFP

Data sheet:  [16-bit Embedded Control Solutions](#)  
 [dsPIC\(33,24\)EPzzz\(MU,GU\)8xx Datasheet](#)  
 [dsPIC33EPxxx\(GP,Mx\)8xx, PIC24EPxxxGx81x Errata](#)

RoHs Status: Lead free / RoHS Compliant

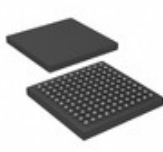
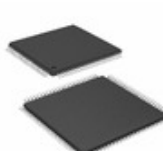
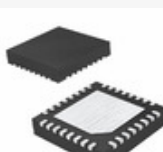
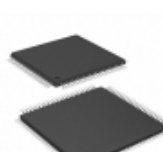
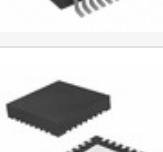
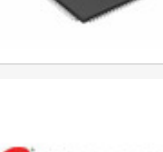
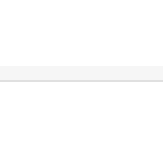
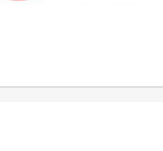
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Images are for reference only.  
See Product Specifications for product details.  
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Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                               |                                  |                                                                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | DSPIC33EP512MU814-I/PH                                        | Manufacturer                     | <a href="#">Micrel / Microchip Technology</a>                                                                                                                                |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | IC MCU 16BIT 512KB FLASH 144TQFP                              | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                                                                   |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 13285 pcs                                                     | Data sheet                       | <a href="#">16-bit Embedded Control Solutions</a><br><a href="#">dsPIC(33,24)EPzzz(MU,GU)8xx Datasheet</a><br><a href="#">dsPIC33EPxxx(GP,Mx)8xx, PIC24EPxxxGx81x Errata</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <a href="#">Integrated Circuits (ICs)</a>                     | Voltage - Supply (Vcc/Vdd)       | 3 V ~ 3.6 V                                                                                                                                                                  |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 144-TQFP (16x16)                                              | Speed                            | 70 MIPs                                                                                                                                                                      |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | dsPIC™ 33EP                                                   | RAM Size                         | 24K x 16                                                                                                                                                                     |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | FLASH                                                         | Program Memory Size              | 512KB (170K x 24)                                                                                                                                                            |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Brown-out Detect/Reset, DMA, Motor Control PWM, POR, PWM, WDT | Packaging                        | Tray                                                                                                                                                                         |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 144-TQFP                                                      | Other Names                      | DSPIC33EP512MU814IPH                                                                                                                                                         |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Internal                                                      | Operating Temperature            | -40°C ~ 85°C (TA)                                                                                                                                                            |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 122                                                           | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                                                                                                |
| Manufacturer Standard Lead Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 12 Weeks                                                      | 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 144-TQFP (16x16)                                                                                 |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A/D 32x10b/12b                                                | Core Size                        | 16-Bit                                                                                                                                                                       |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | dsPIC                                                         | Connectivity                     | CANbus, I²C, IrDA, LINbus, QEI, SPI, UART/USART, USB OTG                                                                                                                     |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DSPIC33EP512MU814                                             |                                  |                                                                                                                                                                              |
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| RELATED PRODUCTS                                                                   |                                                                                                 |                                                              |                |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------|
|  | Part#: <a href="#">DSPIC33EP512MU810-I/BG</a><br>Description: IC MCU 16BIT 512KB FLASH 121BGA   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP64GP502-I/SO</a><br>Description: IC MCU 16BIT 64KB FLASH 28SOIC     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512MU810-E/PF</a><br>Description: IC MCU 16BIT 512KB FLASH 100TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP64GP502-I/MM</a><br>Description: IC MCU 16BIT 64KB FLASH 28QFN      | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512MU810-I/PT</a><br>Description: IC MCU 16BIT 512KB FLASH 100TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP64GP502-E/SO</a><br>Description: IC MCU 16BIT 64KB FLASH 28SOIC     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512MU810T-I/BG</a><br>Description: IC MCU 16BIT 512KB FLASH 121BGA  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP64GP502T-E/MM</a><br>Description: IC MCU 16BIT 64KB FLASH 28QFN     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512MU810T-I/PF</a><br>Description: IC MCU 16BIT 512KB FLASH 100TQFP | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512MU810T-I/PT</a><br>Description: IC MCU 16BIT 512KB FLASH 100TQFP | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512MU814-I/PL</a><br>Description: IC MCU 16BIT 512KB FLASH 144LQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP64GP502-I/SS</a><br>Description: IC MCU 16BIT 64KB FLASH 28SSOP     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP64GP502-E/MM</a><br>Description: IC MCU 16BIT 64KB FLASH 28QFN      | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP64GP502-E/SS</a><br>Description: IC MCU 16BIT 64KB FLASH 28SSOP     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512MU810-I/PF</a><br>Description: IC MCU 16BIT 512KB FLASH 100TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP64GP502-I/SP</a><br>Description: IC MCU 16BIT 64KB FLASH 28SDIP     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512MU810-E/PT</a><br>Description: IC MCU 16BIT 512KB FLASH 100TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP64GP502-E/SP</a><br>Description: IC MCU 16BIT 64KB FLASH 28SDIP     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512MU814-E/PL</a><br>Description: IC MCU 16BIT 512KB FLASH 144LQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EP512MU814-E/PH</a><br>Description: IC MCU 16BIT 512KB FLASH 144TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |

Related keywords for DSPIC33EP512MU814-I/PH

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