

DSPIC33EV64GM006-E/PT



Part Number: [DSPIC33EV64GM006-E/PT](#)

Manufacturer: [Micrel / Microchip Technology](#)

Description: IC MCU 16BIT 64KB FLASH 64TQFP

Data sheet:  [dsPIC33EVyyyGM00y/10y Prog Spec](#)  
 [dsPIC33EVxxGM00x/10x Family Datasheet](#)  
 [dsPIC33EVzzGM00z/10z Family Errata](#)

RoHs Status: Lead free / RoHS Compliant

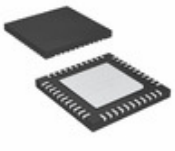
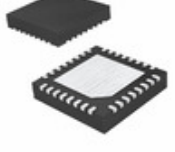
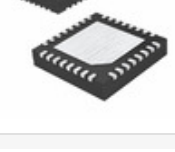
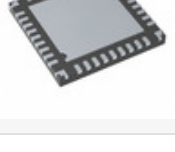
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See Product Specifications for product details.  
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Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                 |                                 |                                                                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | DSPIC33EV64GM006-E/PT                                                                                           | Manufacturer                    | <a href="#">Micrel / Microchip Technology</a>                                                                                                        |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | IC MCU 16BIT 64KB FLASH 64TQFP                                                                                  | Lead Free Status / RoHS Status  | Lead free / RoHS Compliant                                                                                                                           |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 30740 pcs                                                                                                       | Data sheet                      | <a href="#">dsPIC33EVyyyGM00y/10y Prog Spec</a><br><a href="#">dsPIC33EVxxGM00x/10x Family</a><br><a href="#">dsPIC33EVzzGM00z/10z Family Errata</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <a href="#">Integrated Circuits (ICs)</a>                                                                       | Voltage - Supply (Vcc/Vdd)      | 4.5 V ~ 5.5 V                                                                                                                                        |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 64-TQFP (10x10)                                                                                                 | Speed                           | 60 MIPs                                                                                                                                              |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Automotive, AEC-Q100, dsPIC™ 33EV                                                                               | RAM Size                        | 8K x 8                                                                                                                                               |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | FLASH                                                                                                           | Program Memory Size             | 64KB (22K x 24)                                                                                                                                      |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Brown-out Detect/Reset, DMA, Motor Control PWM, POR, PWM, WDT                                                   | Packaging                       | Tray                                                                                                                                                 |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 64-TQFP                                                                                                         | Oscillator Type                 | Internal                                                                                                                                             |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -40°C ~ 125°C (TA)                                                                                              | Number of I/O                   | 53                                                                                                                                                   |
| 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 Automotive, AEC-Q100, dsPIC™ 33EV Microcontroller IC 16-Bit 60 MIPs 64KB (22K x 24) FLASH 64-TQFP (10x10) | Data Converters                 | A/D 36x10/12b                                                                                                                                        |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 16-Bit                                                                                                          | Core Processor                  | dsPIC                                                                                                                                                |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | I²C, IrDA, LINbus, SPI, UART/USART                                                                              | Base Part Number                | DSPIC33EV64                                                                                                                                          |
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| RELATED PRODUCTS                                                                   |                                                                                              |                                                              |                |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------|
|  | Part#: <a href="#">DSPIC33EV64GM102-I/SO</a><br>Description: IC MCU 16BIT 64KB FLASH 28SOIC  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EV64GM004-I/ML</a><br>Description: IC MCU 16BIT 64KB FLASH 44QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EV64GM006-E/MR</a><br>Description: IC MCU 16BIT 64KB FLASH 64QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EV64GM004-I/PT</a><br>Description: IC MCU 16BIT 64KB FLASH 44TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EV64GM004-E/PT</a><br>Description: IC MCU 16BIT 64KB FLASH 44TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EV64GM102-E/SS</a><br>Description: IC MCU 16BIT 64KB FLASH 28SSOP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EV64GM102-I/MM</a><br>Description: IC MCU 16BIT 64KB FLASH 28QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EV64GM102-E/SO</a><br>Description: IC MCU 16BIT 64KB FLASH 28SOIC  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EV64GM102-E/MM</a><br>Description: IC MCU 16BIT 64KB FLASH 28QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EV64GM006T-I/PT</a><br>Description: IC MCU 16BIT 64KB FLASH 64TQFP | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EV64GM003-E/M5</a><br>Description: ECC FLASH, 8KB RAM              | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EV64GM004T-I/PT</a><br>Description: IC MCU 16BIT 64KB FLASH 44TQFP | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EV64GM004T-I/ML</a><br>Description: IC MCU 16BIT 64KB FLASH 44QFN  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EV64GM006-I/PT</a><br>Description: IC MCU 16BIT 64KB FLASH 64TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EV64GM006T-I/MR</a><br>Description: IC MCU 16BIT 64KB FLASH 64QFN  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EV64GM006-I/MR</a><br>Description: IC MCU 16BIT 64KB FLASH 64QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EV64GM102-E/SP</a><br>Description: IC MCU 16BIT 64KB FLASH 28SDIP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EV64GM003-I/M5</a><br>Description: ECC FLASH, 8KB RAM              | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EV64GM003T-I/M5</a><br>Description: ECC FLASH, 8KB RAM             | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33EV64GM004-E/ML</a><br>Description: IC MCU 16BIT 64KB FLASH 44QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |

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|---------------------------------------------------|------------------------------------------|--------------------------------------------|----------------------------------------|
| Related keywords for <b>DSPIC33EV64GM006-E/PT</b> |                                          |                                            |                                        |
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