

Image may be representation.  
See specifications for product details.



## DSPIC33EP32GS502-I/MM

Manufacturer Part Number	<b>DSPIC33EP32GS502-I/MM</b>
Manufacturer	<b>Microchip Technology</b>
Allelco Part Number	32D-DSPIC33EP32GS502-I/MM
ECAD Model	Request Free CAD Models
Parts Description	IC MCU 16BIT 32KB FLASH 28QFN
Package	28-VQFN Exposed Pad
Data sheet	<b>dsPIC33EPxxGS50x Family.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

DSPIC33EP32GS502-I/MM - Microchip Technology.New Original in Stock. Download Linear Technology DSPIC33EP32GS502-I/MM datasheet/specifications on AllelcoElec.com.  
Request a quote for DSPIC33EP32GS502-I/MM, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

DSPIC33EP32GS502-I/MM Tech Specifications  
DSPIC33EP32GS502-I/MM - Microchip Technology technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Microchip Technology	Oscillator Type	Internal
Voltage - Supply (Vcc/Vdd)	3V ~ 3.6V	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package	28-QFN-S (6x6)	Number of I/O	21
Speed	70 MIPS	Mounting Type	Surface Mount
Series	dsPIC™ 33EP, Functional Safety (FuSa)	EEPROM Size	-
RAM Size	4K x 8	Data Converters	A/D 12x12b; D/A 1x12b
Program Memory Type	FLASH	Core Size	16-Bit
Program Memory Size	32KB (32K x 8)	Core Processor	dsPIC
Peripherals	Brown-out Detect/Reset, POR, PWM, WDT	Connectivity	I²C, IrDA, LINbus, SPI, UART/USART
Package / Case	28-VQFN Exposed Pad	Base Product Number	DSPIC33EP32GS502
Package	Tube		

### Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology DSPIC33EP32GS502-I/MM

Product Attribute				
Part Number	DSPIC33EP32GS502-I/MM	<b>DSPIC33EP256MU810-E/PF</b>	<b>DSPIC33EP256MU810-I/PT</b>	DSPIC33EP32GS202T-I/SO
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
Package / Case	28-VQFN Exposed Pad	100-TQFP	100-TQFP	28-SOIC (0.295", 7.50mm Width)
Connectivity	I²C, IrDA, LINbus, SPI, UART/USART	CANbus, I²C, IrDA, LINbus, QEI, SPI, UART/USART, USB OTG	CANbus, I²C, IrDA, LINbus, QEI, SPI, UART/USART, USB OTG	I²C, IrDA, LINbus, SPI, UART/USART
Peripherals	Brown-out Detect/Reset, POR, PWM, WDT	Brown-out Detect/Reset, DMA, Motor Control PWM, POR, PWM, WDT	Brown-out Detect/Reset, DMA, Motor Control PWM, POR, PWM, WDT	Brown-out Detect/Reset, POR, PWM, WDT
Data Converters	A/D 12x12b; D/A 1x12b	A/D 32x10b/12b	A/D 32x10b/12b	A/D 12x12b; D/A 2x12b
Oscillator Type	Internal	Internal	Internal	Internal
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
RAM Size	4K x 8	12K x 16	12K x 16	2K x 8
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 125°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C
Core Processor	dsPIC	dsPIC	dsPIC	dsPIC
Base Product Number	DSPIC33EP32GS502	DSPIC33EP256MU810	DSPIC33EP256MU810	DSPIC33EP32GS202
EEPROM Size	-	-	-	-
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Number of I/O	21	83	83	21
Program Memory Size	32KB (32K x 8)	256KB (85.5K x 24)	256KB (85.5K x 24)	32KB (32K x 8)
Series	dsPIC™ 33EP, Functional Safety (FuSa)	Automotive, AEC-Q100, dsPIC™ 33EP	dsPIC™ 33EP	dsPIC™ 33EP, Functional Safety (FuSa)
Core Size	16-Bit	16-Bit	16-Bit	16-Bit
Voltage - Supply (Vcc/Vdd)	3V ~ 3.6V	3V ~ 3.6V	3V ~ 3.6V	3V ~ 3.6V
Speed	70 MIPS	60 MIPS	60 MIPS	70 MIPS
Supplier Device Package	28-QFN-S (6x6)	100-TQFP (14x14)	100-TQFP (12x12)	28-SOIC
Package	Tube	Tray	Tray	Tape & Reel (TR)

### DSPIC33EP32GS502-I/MM Datasheet PDF

Download DSPIC33EP32GS502-I/MM pdf datasheets and Microchip Technology documentation for DSPIC33EP32GS502-I/MM - Microchip Technology.

#### Datasheets

dsPIC33EPxxGS50x Family.pdf

#### PCN Packaging

PCN Assembly/Origin

2.73KHz.pdf


PCN Design/Specification


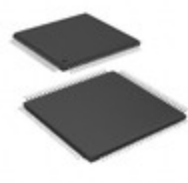


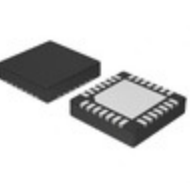




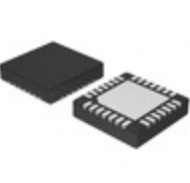

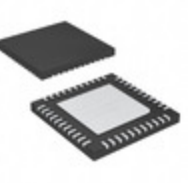






dsPIC33EP Errata/DS Chg 21/Dec/2018.pdf

dsPIC33EPXXGS50X 02/Aug/2017.pdf

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Recommended Products



 <b>DSPIC33EP256MU810-E/PF</b> Microchip Technology IC MCU 16BIT 256KB FLASH 100TQFP	 <b>DSPIC33EP256MU810-I/PT</b> Microchip Technology IC MCU 16BIT 256KB FLASH 100TQFP	 <b>DSPIC33EP32GS202-I/SO</b> Microchip Technology IC MCU 16BIT 32KB FLASH 28SOIC	 <b>DSPIC33EP32GS504-E/PT</b> Microchip Technology IC MCU 16BIT 32KB FLASH 44TQFP	 <b>DSPIC33EP32GS202-E/MM</b> Microchip Technology IC MCU 16BIT 32KB FLASH 28QFN	 <b>DSPIC33EP32GS505T-E/PT</b> Microchip Technology IC MCU 16BIT 32KB FLASH 48TQFP
 <b>DSPIC33EP32GP502-I/SS</b> Microchip Technology IC MCU 16BIT 32KB FLASH 28SSOP	 <b>DSPIC33EP32GP502T-I/SS</b> Microchip Technology IC MCU 16BIT 32KB FLASH 28SSOP	 <b>DSPIC33EP32GS504-I/PT</b> Microchip Technology IC MCU 16BIT 32KB FLASH 44TQFP	 <b>DSPIC33EP32GP502-I/MM</b> Microchip Technology IC MCU 16BIT 32KB FLASH 28QFN	 <b>DSPIC33EP32GS502-I/SO</b> Microchip Technology IC MCU 16BIT 32KB FLASH 28SOIC	 <b>DSPIC33EP32GS504-I/ML</b> Microchip Technology IC MCU 16BIT 32KB FLASH 44QFN
 <b>DSPIC33EP32MC202-E/SS</b> Microchip Technology IC MCU 16BIT 32KB FLASH 28SSOP	 <b>DSPIC33EP32GS202-E/SS</b> Microchip Technology IC MCU 16BIT 32KB FLASH 28SSOP	 <b>DSPIC33EP32MC202-E/MM</b> Microchip Technology IC MCU 16BIT 32KB FLASH 28QFN	 <b>DSPIC33EP32GS506-I/PT</b> Microchip Technology IC MCU 16BIT 32KB FLASH 64TQFP	 <b>DSPIC33EP32GP504-I/PT</b> Microchip Technology IC MCU 16BIT 32KB FLASH 44TQFP	 <b>DSPIC33EP32GS504T-E/PT</b> Microchip Technology IC MCU 16BIT 32KB FLASH 44TQFP

Shipment

Delivery Time

In-stock items can be shipped within 24 hours. Some parts will be arranged for delivery within 1-2 days from the date all items arrive at our warehouse. And Allelco ships order once a day at about 17:00, except Sunday. Once the goods are shipped, the estimated delivery time depends on the shipping methods and Delivery destination. The table below shows are the logistic time for some common countries.

Delivery Cost

- > Use your express account for shipment if you have one.
  - > Use our account for the shipment. Refer to the table below for the approximate charges.
- (Different time frame / countries / package size has different price.)

Delivery Method

- > Global Common Shipment by DHL / UPS / FedEx / TNT / EMS / SF we support.
- > Others more shipping ways, please get in touch with your customer manager.

Common Countries Logistic Time Reference		
Region	Country	Logistic Time(Day)
America	United States	5
	Brazil	7
Europe	Germany	5
	United Kingdom	4
	Italy	5
Oceania	Australia	6
	New Zealand	7
Asia	India	6
	Japan	7
Middle East	Israel	6

DHL & FedEx Shipment Charges Reference	
Shipment charges(KG)	Reference DHL(USD\$)
0.00kg-1.00kg	USD\$60.00
1.00kg-2.00kg	USD\$70.00
2.00kg-3.00kg	USD\$80.00




Note: The above table is for reference only. There may have some data bias for the uncontrollable factors. Contact us if you have any questions.

Payment Support



The payment method can be chosen from the methods shown below:  
 Wire Transfer (T/T, Bank Transfer), Western Union, Credit card, PayPal.



Your Faithful Supply Chain Partner -

 Efficient Supply Management	 Cost-Saving Procurement	 Fast Sourcing & Delivery
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Contact us if you have any questions.

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Certifications & Memberships



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