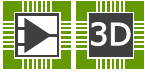





# DSPIC33EP64GS502-I/SO

Manufacturer Part Number	<b>DSPIC33EP64GS502-I/SO</b>
Manufacturer	<b>Microchip Technology</b>
Allelco Part Number	32D-DSPIC33EP64GS502-I/SO
ECAD Model	 PCB Symbol, Footprint & 3D Model
Parts Description	IC MCU 16BIT 64KB FLASH 28SOIC
Package	28-SOIC (0.295", 7.50mm Width)
Data sheet	<a href="#">dsPIC33EPxxGS50x Family.pdf</a>
RoHS Status	 ROHS3 Compliant



**Get a Quote**

DSPIC33EP64GS502-I/SO - Microchip Technology. New Original in Stock. Download Linear Technology DSPIC33EP64GS502-I/SO datasheet/specifications on AllelcoElec.com.  
Request a quote for DSPIC33EP64GS502-I/SO, please send us email: [info@allelco.com](mailto:info@allelco.com)





## Specifications

DSPIC33EP64GS502-I/SO Tech Specifications  
DSPIC33EP64GS502-I/SO - 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-SOIC	Number of I/O	21
Speed	70 MIPS	Mounting Type	Surface Mount
Series	dsPIC™ 33EP, Functional Safety (FuSa)	EEPROM Size	-
RAM Size	8K x 8	Data Converters	A/D 12x12b; D/A 1x12b
Program Memory Type	FLASH	Core Size	16-Bit
Program Memory Size	64KB (64K x 8)	Core Processor	dsPIC
Peripherals	Brown-out Detect/Reset, POR, PWM, WDT	Connectivity	I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART
Package / Case	28-SOIC (0.295", 7.50mm Width)	Base Product Number	DSPIC33EP64GS502
Package	Tube		

## Parts with Similar Specifications


The three parts on the right have similar specifications to Microchip Technology DSPIC33EP64GS502-I/SO

Product Attribute	 NO PICTURE			
Part Number	DSPIC33EP64GS502-I/SO	<a href="#">DSPIC33EP64GS506-I/PT</a>	<a href="#">DSPIC33EP64MC202-E/SS</a>	<a href="#">DSPIC33EP512MU814-I/PH</a>
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
Data Converters	A/D 12x12b; D/A 1x12b	A/D 22x12b; D/A 2x12b	A/D 6x10b/12b	A/D 32x10b/12b
Peripherals	Brown-out Detect/Reset, POR, PWM, WDT	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
Core Size	16-Bit	16-Bit	16-Bit	16-Bit
RAM Size	8K x 8	8K x 8	4K x 16	24K x 16
Program Memory Size	64KB (64K x 8)	64KB (64K x 8)	64KB (22K x 24)	512KB (170K x 24)
Supplier Device Package	28-SOIC	64-TQFP (10x10)	28-SSOP	144-TQFP (16x16)
Number of I/O	21	53	21	122
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
EEPROM Size	-	-	-	-
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 125°C (TA)	-40°C ~ 85°C (TA)
Package	Tube	Tray	Tube	Tray
Package / Case	28-SOIC (0.295", 7.50mm Width)	64-TQFP	28-SSOP (0.209", 5.30mm Width)	144-TQFP
Voltage - Supply (Vcc/Vdd)	3V ~ 3.6V	3V ~ 3.6V	3V ~ 3.6V	3V ~ 3.6V
Connectivity	I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART	I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART	I <sup>2</sup> C, IrDA, LINbus, QEI, SPI, UART/USART	CANbus, I <sup>2</sup> C, IrDA, LINbus, QEI, SPI, UART/USART, USB OTG
Oscillator Type	Internal	Internal	Internal	Internal
Speed	70 MIPS	70 MIPS	60 MIPS	70 MIPS
Core Processor	dsPIC	dsPIC	dsPIC	dsPIC
Base Product Number	DSPIC33EP64GS502	DSPIC33EP64GS506	DSPIC33EP64MC202	DSPIC33EP512MU814
Series	dsPIC™ 33EP, Functional Safety (FuSa)	dsPIC™ 33EP, Functional Safety (FuSa)	Automotive, AEC-Q100, dsPIC™ 33EP	dsPIC™ 33EP


## DSPIC33EP64GS502-I/SO Datasheet PDF


Download DSPIC33EP64GS502-I/SO pdf datasheets and Microchip Technology documentation for DSPIC33EP64GS502-I/SO - Microchip Technology.

### Datasheets

 [dsPIC33EPxxGS50x Family.pdf](#)






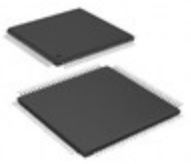




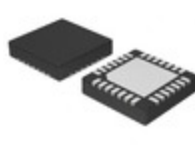

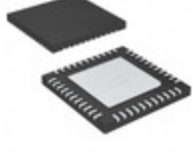
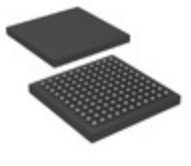



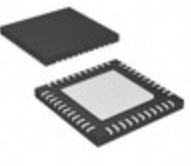
### PCN Packaging

 [Label and Packing Changes 23/Sep/2015.pdf](#)

 [Packing Changes 10/Oct/2016.pdf](#)

## Customers Also Interested in

### Recommended Products

					
<b>DSPIC33EP64GS506-I/PT</b>	<b>DSPIC33EP64MC202-E/SS</b>	<b>DSPIC33EP512MU814-I/PH</b>	<b>DSPIC33EP512MC806-I/PT</b>	<b>DSPIC33EP64GS506T-E/PT</b>	<b>DSPIC33EP512MU810-I/PT</b>
Microchip Technology IC MCU 16BIT 64KB FLASH 64TQFP	Microchip Technology IC MCU 16BIT 64KB FLASH 28SSOP	Microchip Technology IC MCU 16BIT 512KB FLASH 144TQFP	Microchip Technology IC MCU 16BIT 512KB FLASH 64TQFP	Microchip Technology IC MCU 16BIT 64KB FLASH 64TQFP	Microchip Technology IC MCU 16BIT 512KB FLASH 100TQFP
					
<b>DSPIC33EP64GS506T-I/PT</b>	<b>DSPIC33EP64GS804-E/PT</b>	<b>DSPIC33EP512MU814-E/PH</b>	<b>DSPIC33EP512MU814-I/PL</b>	<b>DSPIC33EP64MC202-E/MM</b>	<b>DSPIC33EP64GS504T-E/PT</b>
Microchip Technology IC MCU 16BIT 64KB FLASH 64TQFP	Microchip Technology IC MCU 16BIT 64KB FLASH 44TQFP	Microchip Technology IC MCU 16BIT 512KB FLASH 144TQFP	Microchip Technology IC MCU 16BIT 512KB FLASH 144LQFP	Microchip Technology IC MCU 16BIT 64KB FLASH 28QFN	Microchip Technology IC MCU 16BIT 64KB FLASH 44TQFP
					
<b>DSPIC33EP64GS504-I/ML</b>	<b>DSPIC33EP512MU810-E/BG</b>	<b>DSPIC33EP64GP504-I/PT</b>	<b>DSPIC33EP512MU810-I/PF</b>	<b>DSPIC33EP64GS504-I/PT</b>	<b>DSPIC33EP64GP504-I/ML</b>
Microchip Technology IC MCU 16BIT 64KB FLASH 44QFN	Microchip Technology IC MCU 16BIT 512KB FLSH 121TFBGA	Microchip Technology IC MCU 16BIT 64KB FLASH 44TQFP	Microchip Technology IC MCU 16BIT 512KB FLASH 100TQFP	Microchip Technology IC MCU 16BIT 64KB FLASH 44TQFP	Microchip Technology IC MCU 16BIT 64KB FLASH 44QFN

## 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

Contact us if you have any questions.

-  Phone  
+00852 9146 4856
-  Email  
info@allelco.com

### Certifications & Memberships



[View More](#)

### Contact us

Address: Flat/Rm C 13/F Harvard Commercial Building 105-111 Thomson Road, Wan Chai, Hong Kong  
Phone: +00852 9146 4856  
Fax: +00852 3010 8510  
Email: info@Allelco.com