

Image may be representation.
See specifications for product details.



DSPIC33EP16GS502-E/MM

Manufacturer Part Number	DSPIC33EP16GS502-E/MM
Manufacturer	Microchip Technology
Allelco Part Number	32D-DSPIC33EP16GS502-E/MM
ECAD Model	Request Free CAD Models
Parts Description	IC MCU 16BIT 16KB FLASH 28QFN
Package	28-VQFN Exposed Pad
Data sheet	dsPIC33EPxxGS50x Family.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

DSPIC33EP16GS502-E/MM - Microchip Technology.New Original in Stock. Download Linear Technology DSPIC33EP16GS502-E/MM datasheet/specifications on AllelcoElec.com.
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Specifications

DSPIC33EP16GS502-E/MM Tech Specifications
DSPIC33EP16GS502-E/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 ~ 125°C (TA)
Supplier Device Package	28-QFN-S (6x6)	Number of I/O	21
Speed	60 MIPs	Mounting Type	Surface Mount
Series	Automotive, AEC-Q100, dsPIC™ 33EP, Functional Safety (FuSa)	EEPROM Size	-
RAM Size	2K x 8	Data Converters	A/D 12x12b; D/A 1x12b
Program Memory Type	FLASH	Core Size	16-Bit
Program Memory Size	16KB (16K 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	DSPIC33EP16GS502
Package	Tube		

Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology DSPIC33EP16GS502-E/MM

Product Attribute				
Part Number	DSPIC33EP16GS502-E/MM	DSPIC33EP16GS506-I/PT	DSPIC33EP16GS202-I/SS	DSPIC33EP16GS504-E/PT
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
Core Size	16-Bit	16-Bit	16-Bit	16-Bit
Package / Case	28-VQFN Exposed Pad	64-TQFP	28-SSOP (0.209', 5.30mm Width)	44-TQFP
Package	Tube	Tray	Tube	Tray
Program Memory Size	16KB (16K x 8)	16KB (16K x 8)	16KB (16K x 8)	16KB (16K x 8)
Peripherals	Brown-out Detect/Reset, POR, PWM, WDT	Brown-out Detect/Reset, POR, PWM, WDT	Brown-out Detect/Reset, POR, PWM, WDT	Brown-out Detect/Reset, POR, PWM, WDT
Base Product Number	DSPIC33EP16GS502	DSPIC33EP16GS506	DSPIC33EP16GS202	DSPIC33EP16GS504
Series	Automotive, AEC-Q100, dsPIC™ 33EP, Functional Safety (FuSa)	dsPIC™ 33EP, Functional Safety (FuSa)	dsPIC™ 33EP, Functional Safety (FuSa)	Automotive, AEC-Q100, dsPIC™ 33EP, Functional Safety (FuSa)
EEPROM Size	-	-	-	-
Operating Temperature	-40°C ~ 125°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 125°C
Oscillator Type	Internal	Internal	Internal	Internal
Core Processor	dsPIC	dsPIC	dsPIC	dsPIC
Supplier Device Package	28-QFN-S (6x6)	64-TQFP (10x10)	28-SSOP	44-TQFP (10x10)
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Voltage - Supply (Vcc/Vdd)	3V ~ 3.6V	3V ~ 3.6V	3V ~ 3.6V	3V ~ 3.6V
Connectivity	I²C, IrDA, LINbus, SPI, UART/USART	I²C, IrDA, LINbus, SPI, UART/USART	I²C, IrDA, LINbus, SPI, UART/USART	I²C, IrDA, LINbus, SPI, UART/USART
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Number of I/O	21	53	21	35
RAM Size	2K x 8	2K x 8	2K x 8	2K x 8
Speed	60 MIPs	70 MIPs	70 MIPs	60 MIPs
Data Converters	A/D 12x12b; D/A 1x12b	A/D 22x12b; D/A 2x12b	A/D 12x12b; D/A 2x12b	A/D 19x12b; D/A 1x12b

DSPIC33EP16GS502-E/MM Datasheet PDF

Download DSPIC33EP16GS502-E/MM pdf datasheets and Microchip Technology documentation for DSPIC33EP16GS502-E/MM - Microchip Technology.

Datasheets

dsPIC33EPxxGS50x Family.pdf

PCN Packaging

PCN Assembly/Origin




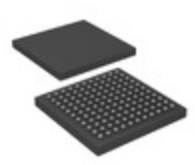


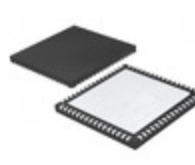



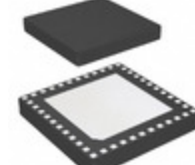
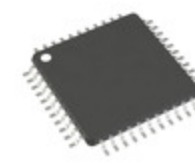
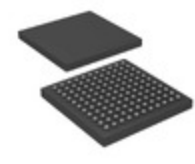



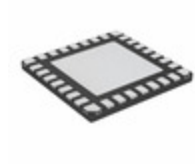
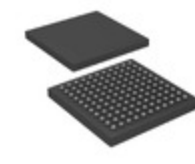
Mult Dev Bond Wire 30/Jun/2020.pdf

PCN Design/Specification

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

Customers Also Interested in

Recommended Products

					
DSPIC33EP16GS506-I/PT	DSPIC33EP16GS202-I/SS	DSPIC33EP16GS504-E/PT	DSPIC33EP256GM310-E/BG	DSPIC33EP128MC506-I/PT	DSPIC33EP16GS202T-I/SS
Microchip Technology IC MCU 16BIT 16KB FLASH 64TQFP	Microchip Technology IC MCU 16BIT 16KB FLASH 28SSOP	Microchip Technology IC MCU 16BIT 16KB FLASH 44TQFP	Microchip Technology IC MCU 16BIT 256KB FLSH 121TFBGA	Microchip Technology IC MCU 16BIT 128KB FLASH 64TQFP	Microchip Technology IC MCU 16BIT 16KB FLASH 28SSOP
					
DSPIC33EP128MC506-E/MR	DSPIC33EP16GS502-I/SO	DSPIC33EP256GM604-I/PT	DSPIC33EP16GS202-E/SO	DSPIC33EP128MC504T-I/TL	DSPIC33EP16GS504-I/PT
Microchip Technology IC MCU 16BIT 128KB FLASH 64VQFN	Microchip Technology IC MCU 16BIT 16KB FLASH 28SOIC	Microchip Technology IC MCU 16BIT 256KB FLASH 44TQFP	Microchip Technology IC MCU 16BIT 16KB FLASH 28SOIC	Microchip Technology IC MCU 16BIT 128KB FLASH 44VTLA	Microchip Technology IC MCU 16BIT 16KB FLASH 44TQFP
					
DSPIC33EP256GM710-I/BG	DSPIC33EP16GS202T-I/SO	DSPIC33EP16GS502-E/SO	DSPIC33EP16GS202-E/SS	DSPIC33EP16GS502-I/MX	DSPIC33EP256GM710-E/BG
Microchip Technology IC MCU 16BIT 256KB FLSH 121TFBGA	Microchip Technology IC MCU 16BIT 16KB FLASH 28SOIC	Microchip Technology IC MCU 16BIT 16KB FLASH 28SOIC	Microchip Technology IC MCU 16BIT 16KB FLASH 28SSOP	Microchip Technology IC MCU 16BIT 16KB FLASH 28UQFN	Microchip Technology IC MCU 16BIT 256KB FLSH 121TFBGA

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.



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-  Efficient Supply Management
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-  Fast Sourcing & Delivery

Contact us if you have any questions.

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Certifications & Memberships



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