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See specifications for product details.



## DSPIC33EP128MC504T-I/ML

Manufacturer Part Number	<b>DSPIC33EP128MC504T-I/ML</b>
Manufacturer	<b>Microchip Technology</b>
Allelco Part Number	32D-DSPIC33EP128MC504T-I/ML
ECAD Model	Request Free CAD Models
Parts Description	IC MCU 16BIT 128KB FLASH 44QFN
Package	44-VQFN Exposed Pad
Data sheet	<b>dsPIC(33,24)EPzzz(GP,MC)20x,50x Datasheet.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

DSPIC33EP128MC504T-I/ML - Microchip Technology.New Original in Stock. Download Linear Technology DSPIC33EP128MC504T-I/ML datasheet/specifications on AllelcoElec.com.  
Request a quote for DSPIC33EP128MC504T-I/ML, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

DSPIC33EP128MC504T-I/ML Tech Specifications  
DSPIC33EP128MC504T-I/ML - 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	44-QFN (8x8)	Number of I/O	35
Speed	70 MIPS	Mounting Type	Surface Mount
Series	dsPIC™ 33EP	EEPROM Size	-
RAM Size	8K x 16	Data Converters	A/D 9x10b/12b
Program Memory Type	FLASH	Core Size	16-Bit
Program Memory Size	128KB (43K x 24)	Core Processor	dsPIC
Peripherals	Brown-out Detect/Reset, DMA, Motor Control PWM, POR, PWM, WDT	Connectivity	CANbus, I²C, IrDA, LINbus, QEI, SPI, UART/USART
Package / Case	44-VQFN Exposed Pad	Base Product Number	DSPIC33EP128MC504
Package	Tape & Reel (TR)		

### Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology DSPIC33EP128MC504T-I/ML

Product Attribute				
Part Number	DSPIC33EP128MC504T-I/ML	DSPIC33EP16GS202-I/SS	DSPIC33EP128MC504-I/MV	DSPIC33EP16GS202T-I/SO
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
EEPROM Size	-	-	-	-
Number of I/O	35	21	35	21
Connectivity	CANbus, I²C, IrDA, LINbus, QEI, SPI, UART/USART	I²C, IrDA, LINbus, SPI, UART/USART	CANbus, I²C, IrDA, LINbus, QEI, SPI, UART/USART	I²C, IrDA, LINbus, SPI, UART/USART
Peripherals	Brown-out Detect/Reset, DMA, Motor Control PWM, 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, POR, PWM, WDT
Oscillator Type	Internal	Internal	Internal	Internal
Package / Case	44-VQFN Exposed Pad	28-SSOP (0.209", 5.30mm Width)	48-UQFN Exposed Pad	28-SOIC (0.295", 7.50mm Width)
Package	Tape & Reel (TR)	Tube	Tube	Tape & Reel (TR)
Base Product Number	DSPIC33EP128MC504	DSPIC33EP16GS202	DSPIC33EP128MC504	DSPIC33EP16GS202
Speed	70 MIPS	70 MIPS	70 MIPS	70 MIPS
Core Processor	dsPIC	dsPIC	dsPIC	dsPIC
Program Memory Size	128KB (43K x 24)	16KB (16K x 8)	128KB (43K x 24)	16KB (16K x 8)
Series	dsPIC™ 33EP	dsPIC™ 33EP, Functional Safety (FuSa)	dsPIC™ 33EP	dsPIC™ 33EP, Functional Safety (FuSa)
Core Size	16-Bit	16-Bit	16-Bit	16-Bit
Supplier Device Package	44-QFN (8x8)	28-SSOP	48-UQFN (6x6)	28-SOIC
Data Converters	A/D 9x10b/12b	A/D 12x12b; D/A 2x12b	A/D 9x10b/12b	A/D 12x12b; D/A 2x12b
Voltage - Supply (Vcc/Vdd)	3V ~ 3.6V	3V ~ 3.6V	3V ~ 3.6V	3V ~ 3.6V
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
RAM Size	8K x 16	2K x 8	8K x 16	2K x 8
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C
Program Memory Type	FLASH	FLASH	FLASH	FLASH

### DSPIC33EP128MC504T-I/ML Datasheet PDF

Download DSPIC33EP128MC504T-I/ML pdf datasheets and Microchip Technology documentation for DSPIC33EP128MC504T-I/ML - Microchip Technology.

#### Datasheets

dsPIC(33,24)EPzzz(GP,MC)20x,50x Datasheet.pdf

#### PCN Packaging

PCN Packaging

## PCN Design/Specification

dsPIC33EP/PIC24EP 18/Jun/2020.pdf




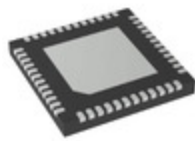



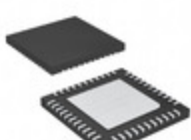
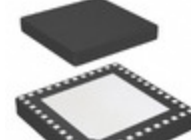
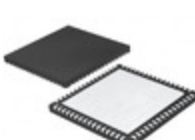
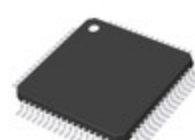




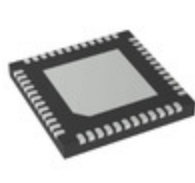
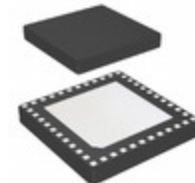

Multiple Devices Errata Revision 20/Aug/2013.pdf

## PCN Assembly/Origin

Fabrication Site 09/Mar/2023.pdf

## Customers Also Interested in

### Recommended Products

 <b>DSPIC33EP128MC504</b> Micrel / Microchip Technology	 <b>DSPIC33EP16GS202-I/SS</b> Microchip Technology IC MCU 16BIT 16KB FLASH 28SSOP	 <b>DSPIC33EP128MC504-E</b> Micrel / Microchip Technology	 <b>DSPIC33EP128MC504-I/MV</b> Microchip Technology IC MCU 16BIT 128KB FLASH 48UQFN	 <b>DSPIC33EP16GS202T-I/SO</b> Microchip Technology IC MCU 16BIT 16KB FLASH 28SOIC	 <b>DSPIC33EP128MC206T-I/PT</b> Microchip Technology IC MCU 16BIT 128KB FLASH 64TQFP
 <b>DSPIC33EP128MC504-I/PT</b> Microchip Technology IC MCU 16BIT 128KB FLASH 44TQFP	 <b>DSPIC33EP128MC504-I/ML</b> Microchip Technology IC MCU 16BIT 128KB FLASH 44QFN	 <b>DSPIC33EP128MC504T-I/TL</b> Microchip Technology IC MCU 16BIT 128KB FLASH 44VTLA	 <b>DSPIC33EP128MC506-E/MR</b> Microchip Technology IC MCU 16BIT 128KB FLASH 64VQFN	 <b>DSPIC33EP128MC506-E/PT</b> Microchip Technology IC MCU 16BIT 128KB FLASH 64TQFP	 <b>DSPIC33EP128MC506-I/PT</b> Microchip Technology IC MCU 16BIT 128KB FLASH 64TQFP
 <b>DSPIC33EP128MC502-I/SP</b> Microchip Technology IC MCU 16BIT 128KB FLASH 28SPDIP	 <b>DSPIC33EP128MC506</b> Micrel / Microchip Technology	 <b>DSPIC33EP16GS202-E/SS</b> Microchip Technology IC MCU 16BIT 16KB FLASH 28SSOP	 <b>DSPIC33EP128MC504T-I/MV</b> Microchip Technology IC MCU 16BIT 128KB FLASH 48UQFN	 <b>DSPIC33EP128MC504-I/TL</b> Microchip Technology IC MCU 16BIT 128KB FLASH 44VTLA	 <b>DSPIC33EP16GS202-E/SO</b> Microchip Technology IC MCU 16BIT 16KB FLASH 28SOIC

## 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
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### Certifications & Memberships



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