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See specifications for product details.



DSPIC33EP512MC806-I/MR

Manufacturer Part Number	DSPIC33EP512MC806-I/MR
Manufacturer	Microchip Technology
Allelco Part Number	32D-DSPIC33EP512MC806-I/MR
ECAD Model	Request Free CAD Models
Parts Description	IC MCU 16BIT 512KB FLASH 64VQFN
Package	64-VFQFN Exposed Pad
Data sheet	16-bit Embedded Control Solutions.pdf 16-bit Embedded Control Solutions.pdf dsPIC(33,24)EPzzz(MU,GU)8xx Datasheet.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

DSPIC33EP512MC806-I/MR - Microchip Technology. New Original in Stock. Download Linear Technology DSPIC33EP512MC806-I/MR datasheet/specifications on AllelcoElec.com.
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Specifications

DSPIC33EP512MC806-I/MR Tech Specifications
DSPIC33EP512MC806-I/MR - 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	64-VQFN (9x9)	Number of I/O	53
Speed	70 MIPS	Mounting Type	Surface Mount
Series	dsPIC™ 33EP	EEPROM Size	-
RAM Size	24K x 16	Data Converters	A/D 24x10/12b
Program Memory Type	FLASH	Core Size	16-Bit
Program Memory Size	512KB (170K x 24)	Core Processor	dsPIC
Peripherals	Brown-out Detect/Reset, DMA, Motor Control PWM, POR, PWM, WDT	Connectivity	CANbus, I ² C, IrDA, LINbus, QEI, SPI, UART/USART
Package / Case	64-VFQFN Exposed Pad	Base Product Number	DSPIC33EP512MC806
Package	Tube		

Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology DSPIC33EP512MC806-I/MR

Product Attribute				
Part Number	DSPIC33EP512MC806-I/MR	DSPIC33EP512MU814-I/PL	DSPIC33EP64GP504-I/ML	DSPIC33EP512GP504-I/PT
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
Series	dsPIC™ 33EP	dsPIC™ 33EP	dsPIC™ 33EP	dsPIC™ 33EP
Peripherals	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, DMA, POR, PWM, WDT	Brown-out Detect/Reset, DMA, POR, PWM, WDT
Oscillator Type	Internal	Internal	Internal	Internal
Voltage - Supply (Vcc/Vdd)	3V ~ 3.6V	3V ~ 3.6V	3V ~ 3.6V	3V ~ 3.6V
EEPROM Size	-	-	-	-
Program Memory Size	512KB (170K x 24)	512KB (170K x 24)	64KB (22K x 24)	512KB (170K x 24)
Package	Tube	Tray	Tube	Tray
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Connectivity	CANbus, I ² C, IrDA, LINbus, QEI, SPI, UART/USART	CANbus, I ² C, IrDA, LINbus, QEI, SPI, UART/USART, USB OTG	CANbus, I ² C, IrDA, LINbus, SPI, UART/USART	CANbus, I ² C, IrDA, LINbus, SPI, UART/USART
Package / Case	64-VFQFN Exposed Pad	144-LQFP	44-VQFN Exposed Pad	44-TQFP
Speed	70 MIPS	70 MIPS	70 MIPS	70 MIPS
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Data Converters	A/D 24x10/12b	A/D 32x10b/12b	A/D 9x10b/12b	A/D 9x10b/12b
Number of I/O	53	122	35	35
Core Size	16-Bit	16-Bit	16-Bit	16-Bit
Supplier Device Package	64-VQFN (9x9)	144-LQFP (20x20)	44-QFN (8x8)	44-TQFP (10x10)
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
RAM Size	24K x 16	24K x 16	4K x 16	24K x 16
Base Product Number	DSPIC33EP512MC806	DSPIC33EP512MU814	DSPIC33EP64GP504	DSPIC33EP512GP504
Core Processor	dsPIC	dsPIC	dsPIC	dsPIC

DSPIC33EP512MC806-I/MR Datasheet PDF

Download DSPIC33EP512MC806-I/MR pdf datasheets and Microchip Technology documentation for DSPIC33EP512MC806-I/MR - Microchip Technology.

Datasheets

[16-bit Embedded Control Solutions.pdf](#)

[dsPIC\(33,24\)EPzzz\(MU,GU\)8xx Datasheet.pdf](#)

PCN Packaging



Label and Packing Changes 23/Sep/2015.pdf



Packing Changes 10/Oct/2016.pdf

HTML Datasheet



16-bit Embedded Control Solutions.pdf

PCN Assembly/Origin



Mult Dev 26/Jun/2020.pdf

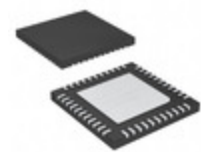
Customers Also Interested in

Recommended Products



DSPIC33EP512MU814-I/PL

Microchip Technology
IC MCU 16BIT 512KB FLASH 144LQFP



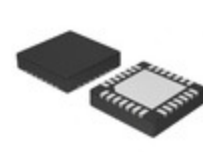
DSPIC33EP64GP504-I/ML

Microchip Technology
IC MCU 16BIT 64KB FLASH 44QFN



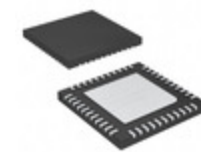
DSPIC33EP512GP504-I/PT

Microchip Technology
IC MCU 16BIT 512KB FLASH 44TQFP



DSPIC33EP512GP502-E/MM

Microchip Technology
IC MCU 16BIT 512KB FLASH 28QFN



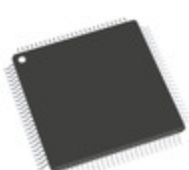
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Microchip Technology
IC MCU 16BIT 512KB FLASH 44QFN



DSPIC33EP512MC504-I/PT

Microchip Technology
IC MCU 16BIT 512KB FLASH 44TQFP



DSPIC33EP512MU810-I/PF

Microchip Technology
IC MCU 16BIT 512KB FLASH 100TQFP



DSPIC33EP512MU814-E/PH

Microchip Technology
IC MCU 16BIT 512KB FLASH 144TQFP



DSPIC33EP512MC504-E/PT

Microchip Technology
IC MCU 16BIT 512KB FLASH 44TQFP



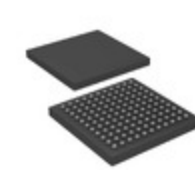
DSPIC33EP64GP504-I/PT

Microchip Technology
IC MCU 16BIT 64KB FLASH 44TQFP



DSPIC33EP512GP806-I/PT

Microchip Technology
IC MCU 16BIT 512KB FLASH 64TQFP



DSPIC33EP512MU810-E/BG

Microchip Technology
IC MCU 16BIT 512KB FLSH 121TFBGA



DSPIC33EP512GP504-E/PT

Microchip Technology
IC MCU 16BIT 512KB FLASH 44TQFP



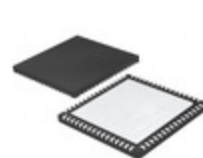
DSPIC33EP512MC806-I/PT

Microchip Technology
IC MCU 16BIT 512KB FLASH 64TQFP



DSPIC33EP512MU814-I/PH

Microchip Technology
IC MCU 16BIT 512KB FLASH 144TQFP



DSPIC33EP512GP806T-I/MR

Microchip Technology
IC MCU 16BIT 512KB FLASH 64VQFN



DSPIC33EP512MC506-I/PT

Microchip Technology
IC MCU 16BIT 512KB FLASH 64TQFP



DSPIC33EP512GP502-I/SP

Microchip Technology
IC MCU 16BIT 512KB FLASH 28SPDIP



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



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