



Image may be representation.  
See specifications for product details.



## PIC24EP512GP806-E/PT

Manufacturer Part Number **PIC24EP512GP806-E/PT**

Manufacturer **Microchip Technology**

Allelco Part Number **32D-PIC24EP512GP806-E/PT**

ECAD Model [Request Free CAD Models](#)

Parts Description **IC MCU 16BIT 512KB FLASH 64TQFP**

Package **64-TQFP**

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

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

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

**[dsPIC33E,PIC24E Datasheet.pdf](#)**

RoHs Status **ROHS3 Compliant**

**Get a Quote**

PIC24EP512GP806-E/PT - Microchip Technology.New Original in Stock. Download Linear Technology PIC24EP512GP806-E/PT datasheet/specifications on AllelcoElec.com. Request a quote for PIC24EP512GP806-E/PT, please send us email: [info@allelco.com](mailto:info@allelco.com)

## Specifications

PIC24EP512GP806-E/PT Tech Specifications

PIC24EP512GP806-E/PT - 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	64-TQFP (10x10)	Number of I/O	53
Speed	60 MIPS	Mounting Type	Surface Mount
Series	Automotive, AEC-Q100, PIC® 24EP	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	PIC
Peripherals	Brown-out Detect/Reset, DMA, POR, PWM, WDT	Connectivity	CANbus, I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART
Package / Case	64-TQFP	Base Product Number	PIC24EP512GP806
Package	Tray		

## Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology PIC24EP512GP806-E/PT

Product Attribute				
Part Number	PIC24EP512GP806-E/PT	PIC24EP32MC204-I/ML	PIC24EP512GU810-E/PF	PIC24EP32GP204-I/PT
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
Voltage - Supply (Vcc/Vdd)	3V ~ 3.6V	3V ~ 3.6V	3V ~ 3.6V	3V ~ 3.6V
Base Product Number	PIC24EP512GP806	PIC24EP32MC204	PIC24EP512GU810	PIC24EP32GP204
Core Size	16-Bit	16-Bit	16-Bit	16-Bit
Program Memory Size	512KB (170K x 24)	32KB (10.7K x 24)	512KB (170K x 24)	32KB (10.7K x 24)
RAM Size	24K x 16	2K x 16	24K x 16	2K x 16
Connectivity	CANbus, 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, SPI, UART/USART, USB OTG	I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART
Supplier Device Package	64-TQFP (10x10)	44-QFN (8x8)	100-TQFP (14x14)	44-TQFP (10x10)
Core Processor	PIC	PIC	PIC	PIC
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Peripherals	Brown-out Detect/Reset, DMA, 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
Number of I/O	53	35	83	35
Data Converters	A/D 24x10/12b	A/D 9x10b/12b	A/D 32x10b/12b	A/D 9x10b/12b
Oscillator Type	Internal	Internal	Internal	Internal
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Package	Tray	Tube	Tray	Tray
Series	Automotive, AEC-Q100, PIC® 24EP	PIC® 24EP	Automotive, AEC-Q100, PIC® 24EP	PIC® 24EP
EEPROM Size	-	-	-	-
Package / Case	64-TQFP	44-VQFN Exposed Pad	100-TQFP	44-TQFP
Speed	60 MIPS	70 MIPS	60 MIPS	70 MIPS
Operating Temperature	-40°C ~ 125°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 125°C (TA)	-40°C ~ 85°C (TA)

## PIC24EP512GP806-E/PT Datasheet PDF

Download PIC24EP512GP806-E/PT pdf datasheets and Microchip Technology documentation for PIC24EP512GP806-E/PT - Microchip Technology.

### Datasheets



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



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




[dsPIC33E,PIC24E Datasheet.pdf](#)

## PCN Packaging

 Label and Packing Changes 23/Sep/2015.pdf

 MBB/Label Chgs 16/Nov/2018.pdf

## HTML Datasheet

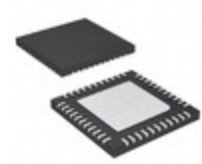
 16-bit Embedded Control Solutions.pdf

## PCN Assembly/Origin

 Qualification Revision 08/May/2014.pdf

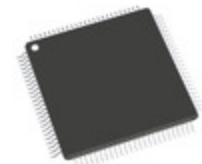
## Customers Also Interested in

### Recommended Products



#### PIC24EP32MC204-I/ML

Microchip Technology  
IC MCU 16BIT 32KB FLASH 44QFN



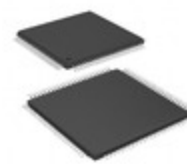
#### PIC24EP512GU810-E/PF

Microchip Technology  
IC MCU 16BIT 512KB FLASH 100TQFP



#### PIC24EP32GP204-I/PT

Microchip Technology  
IC MCU 16BIT 32KB FLASH 44TQFP



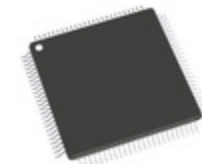
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Microchip Technology  
IC MCU 16BIT 512KB FLASH 100TQFP



#### PIC24EP512MC206-I/PT

Microchip Technology  
IC MCU 16BIT 512KB FLASH 64TQFP



#### PIC24EP512GU810-I/PF

Microchip Technology  
IC MCU 16BIT 512KB FLASH 100TQFP



#### PIC24EP32MC202-E/SS

Microchip Technology  
IC MCU 16BIT 32KB FLASH 28SSOP



#### PIC24EP512GU814-I/PH

Microchip Technology  
IC MCU 16BIT 512KB FLASH 144TQFP



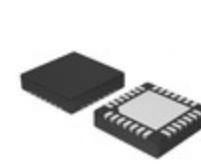
#### PIC24EP64GP202-I/SO

Microchip Technology  
IC MCU 16BIT 64KB FLASH 28SOIC



#### PIC24EP512GP206-I/PT

Microchip Technology  
IC MCU 16BIT 512KB FLASH 64TQFP



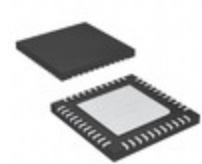
#### PIC24EP64GP202-I/MM

Microchip Technology  
IC MCU 16BIT 64KB FLASH 28QFN



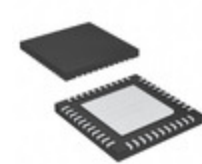
#### PIC24EP512GU814-I/PL

Microchip Technology  
IC MCU 16BIT 512KB FLASH 144LQFP



#### PIC24EP512GP204-I/ML

Microchip Technology  
IC MCU 16BIT 512KB FLASH 44QFN



#### PIC24EP512GP204T-I/ML

Microchip Technology  
IC MCU 16BIT 512KB FLASH 44QFN



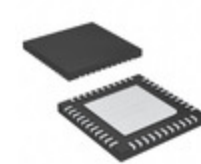
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IC MCU 16BIT 64KB FLASH 28SSOP



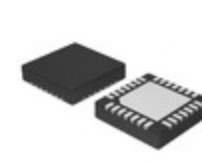
#### PIC24EP32GP202-I/SS

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IC MCU 16BIT 32KB FLASH 28SSOP



#### PIC24EP32GP204-I/ML

Microchip Technology  
IC MCU 16BIT 32KB FLASH 44QFN



#### PIC24EP32GP202-E/MM

Microchip Technology  
IC MCU 16BIT 32KB FLASH 28QFN

## 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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