



Image may be representation.  
See specifications for product details.



## DSPIC33CH256MP506-I/PT

Manufacturer Part Number **DSPIC33CH256MP506-I/PT**

Manufacturer **Microchip Technology**

Allelco Part Number **32D-DSPIC33CH256MP506-I/PT**

ECAD Model [Request Free CAD Models](#)

Parts Description **IC MCU 16BIT 328KB FLASH 64TQFP**

Package **64-TQFP**

Data sheet [dsPIC33CH512MP508 Family Datasheet.pdf](#)

[dsPIC33CH512MP508 Family Brief.pdf](#)

RoHs Status **ROHS3 Compliant**

**Get a Quote**

DSPIC33CH256MP506-I/PT - Microchip Technology. New Original in Stock. Download Linear Technology DSPIC33CH256MP506-I/PT datasheet/specifications on AllelcoElec.com.

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## Specifications

DSPIC33CH256MP506-I/PT Tech Specifications

DSPIC33CH256MP506-I/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 ~ 85°C (TA)
Supplier Device Package	64-TQFP (10x10)	Number of I/O	53
Speed	180MHz, 200MHz	Mounting Type	Surface Mount
Series	dsPIC™ 33CH, Functional Safety (FuSa)	EEPROM Size	-
RAM Size	48K x 8	Data Converters	A/D 34x12b; D/A 4x12b
Program Memory Type	FLASH, PRAM	Core Size	16-Bit Dual-Core
Program Memory Size	328kB (328k x 8)	Core Processor	dsPIC
Peripherals	Brown-out Detect/Reset, DMA, Motor Control PWM, POR, PWM, QEI, WDT	Connectivity	CANbus, I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART
Package / Case	64-TQFP	Base Product Number	DSPIC33CH256MP506
Package	Tray		

## Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology DSPIC33CH256MP506-I/PT

Product Attribute				
Part Number	DSPIC33CH256MP506-I/PT	DSPIC33CH64MP202-E/2N	DSPIC33CH256MP206-E/PT	DSPIC33CH256MP508-E/PT
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
Program Memory Size	328kB (328k x 8)	88kB (88k x 8)	328kB (328k x 8)	328kB (328k x 8)
Supplier Device Package	64-TQFP (10x10)	28-UQFN (6x6)	64-TQFP (10x10)	80-TQFP (12x12)
Core Size	16-Bit Dual-Core	16-Bit Dual-Core	16-Bit Dual-Core	16-Bit Dual-Core
Number of I/O	53	21	53	69
Base Product Number	DSPIC33CH256MP506	DSPIC33CH64MP202	DSPIC33CH256MP206	DSPIC33CH256MP508
Oscillator Type	Internal	Internal	Internal	Internal
Voltage - Supply (Vcc/Vdd)	3V ~ 3.6V	3V ~ 3.6V	3V ~ 3.6V	3V ~ 3.6V
Peripherals	Brown-out Detect/Reset, DMA, Motor Control PWM, POR, PWM, QEI, WDT	Brown-out Detect/Reset, DMA, Motor Control PWM, POR, PWM, QEI, WDT	Brown-out Detect/Reset, DMA, Motor Control PWM, POR, PWM, QEI, WDT	Brown-out Detect/Reset, DMA, Motor Control PWM, POR, PWM, QEI, WDT
RAM Size	48K x 8	20K x 8	48K x 8	48K x 8
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Program Memory Type	FLASH, PRAM	FLASH, PRAM	FLASH, PRAM	FLASH, PRAM
Package / Case	64-TQFP	28-UQFN Exposed Pad	64-TQFP	80-TQFP
Connectivity	CANbus, 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, SPI, UART/USART	CANbus, I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART
Core Processor	dsPIC	dsPIC	dsPIC	dsPIC
Series	dsPIC™ 33CH, Functional Safety (FuSa)	Automotive, AEC-Q100, dsPIC™ 33CH, Functional Safety (FuSa)	Automotive, AEC-Q100, dsPIC™ 33CH, Functional Safety (FuSa)	Automotive, AEC-Q100, dsPIC™ 33CH, Functional Safety (FuSa)
Speed	180MHz, 200MHz	180MHz, 200MHz	180MHz, 200MHz	180MHz, 200MHz
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 125°C (TA)	-40°C ~ 125°C (TA)	-40°C ~ 125°C (TA)
Package	Tray	Tube	Tray	Tray
Data Converters	A/D 34x12b; D/A 4x12b	A/D 23x12b; D/A 4x12b	A/D 34x12b; D/A 4x12b	A/D 34x12b; D/A 4x12b
EEPROM Size	-	-	-	-

## DSPIC33CH256MP506-I/PT Datasheet PDF

Download DSPIC33CH256MP506-I/PT pdf datasheets and Microchip Technology documentation for DSPIC33CH256MP506-I/PT - Microchip Technology.

### Datasheets

[dsPIC33CH512MP508 Family Datasheet.pdf](#)

[dsPIC33CH512MP508 Family Brief.pdf](#)

### Errata

## Customers Also Interested in

### Recommended Products

					
<b>DSPIC33CH64MP202-E/2N</b> Microchip Technology IC MCU 16BIT 88KB FLASH 28UQFN	<b>DSPIC33CH256MP206-E/PT</b> Microchip Technology IC MCU 16BIT 328KB FLASH 64TQFP	<b>DSPIC33CH256MP508-E/PT</b> Microchip Technology IC MCU 16BIT 328KB FLASH 80TQFP	<b>DSPIC33CH256MP505-I/M4</b> Microchip Technology IC MCU 16BIT 328KB FLASH 48UQFN	<b>DSPIC33CH512MP206-I/MR</b> Microchip Technology IC MCU 16BIT 584KB FLASH 64QFN	<b>DSPIC33CH256MP206T-E/PT</b> Micrel / Microchip Technology
					
<b>DSPIC33CH512MP205-I/PT</b> Microchip Technology IC MCU 16BIT 584KB FLASH 48TQFP	<b>DSPIC33CH512MP206-E/MR</b> Microchip Technology IC MCU 16BIT 584KB FLASH 64QFN	<b>DSPIC33CH512MP205-I/M4</b> Microchip Technology IC MCU 16BIT 584KB FLASH 48UQFN	<b>DSPIC33CH512MP205-E/PT</b> Microchip Technology IC MCU 16BIT 584KB FLASH 48TQFP	<b>DSPIC33CH128MP508T-I/PT</b> Microchip Technology IC MCU 16BIT 152KB FLASH 80TQFP	<b>DSPIC33CH512MP205-E/M4</b> Microchip Technology IC MCU 16BIT 584KB FLASH 48UQFN
					
<b>DSPIC33CH128MP508-I/PT</b> Microchip Technology IC MCU 16BIT 152KB FLASH 80TQFP	<b>DSPIC33CH256MP208-I/PT</b> Microchip Technology IC MCU 16BIT 328KB FLASH 80TQFP	<b>DSPIC33CH256MP506-I/MR</b> Microchip Technology IC MCU 16BIT 328KB FLASH 64QFN	<b>DSPIC33CH256MP508T-I/PT</b> Microchip Technology IC MCU 16BIT 328KB FLASH 80TQFP	<b>DSPIC33CH128MP202T-I/SS</b> Microchip Technology IC MCU 16BIT 152KB FLASH 28SSOP	<b>DSPIC33CH128MP205T-I/PT</b> Microchip Technology IC MCU 16BIT 152KB FLASH 48TQFP

## 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.

	
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