



Image may be representation.  
See specifications for product details.



## DSPIC33CH128MP508-I/PT

Manufacturer Part Number	<b>DSPIC33CH128MP508-I/PT</b>
Manufacturer	<b>Microchip Technology</b>
Allelco Part Number	32D-DSPIC33CH128MP508-I/PT
ECAD Model	Request Free CAD Models
Parts Description	IC MCU 16BIT 152KB FLASH 80TQFP
Package	80-TQFP
Data sheet	<b>dsPIC33CH128MP508 Family Datasheet.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

DSPIC33CH128MP508-I/PT - Microchip Technology.New Original in Stock. Download Linear Technology DSPIC33CH128MP508-I/PT datasheet/specifications on AllelcoElec.com.  
Request a quote for DSPIC33CH128MP508-I/PT, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

DSPIC33CH128MP508-I/PT Tech Specifications  
DSPIC33CH128MP508-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	80-TQFP (12x12)	Number of I/O	69
Speed	180MHz, 200MHz	Mounting Type	Surface Mount
Series	dsPIC™ 33CH, Functional Safety (FuSa)	EEPROM Size	-
RAM Size	20K x 8	Data Converters	A/D 34x12b; D/A 4x12b
Program Memory Type	FLASH, PRAM	Core Size	16-Bit Dual-Core
Program Memory Size	152KB (152K 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	80-TQFP	Base Product Number	DSPIC33CH128MP508
Package	Tray		

### Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology DSPIC33CH128MP508-I/PT

Product Attribute				
Part Number	DSPIC33CH128MP508-I/PT	DSPIC33CH256MP508T-I/PT	DSPIC33CH256MP505-I/M4	DSPIC33CH128MP202-I/SS
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
EEPROM Size	-	-	-	-
Supplier Device Package	80-TQFP (12x12)	80-TQFP (12x12)	48-UQFN (6x6)	28-SSOP
Core Processor	dsPIC	dsPIC	dsPIC	dsPIC
Package / Case	80-TQFP	80-TQFP	48-UQFN Exposed Pad	28-SSOP (0.209", 5.30mm Width)
Program Memory Type	FLASH, PRAM	FLASH, PRAM	FLASH, PRAM	FLASH, PRAM
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Number of I/O	69	69	39	21
Voltage - Supply (Vcc/Vdd)	3V ~ 3.6V	3V ~ 3.6V	3V ~ 3.6V	3V ~ 3.6V
RAM Size	20K x 8	48K x 8	48K x 8	20K x 8
Oscillator Type	Internal	Internal	Internal	Internal
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
Program Memory Size	152KB (152K x 8)	328kB (328k x 8)	328kB (328k x 8)	152KB (152K x 8)
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Series	dsPIC™ 33CH, Functional Safety (FuSa)	dsPIC™ 33CH, Functional Safety (FuSa)	Automotive, AEC-Q100, dsPIC™ 33CH, Functional Safety (FuSa)	dsPIC™ 33CH, Functional Safety (FuSa)
Connectivity	CANbus, I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART	CANbus, I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART	CANbus, I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART	I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART
Core Size	16-Bit Dual-Core	16-Bit Dual-Core	16-Bit Dual-Core	16-Bit Dual-Core
Package	Tray	Tape & Reel (TR)	Tube	Tube
Speed	180MHz, 200MHz	180MHz, 200MHz	180MHz, 200MHz	180MHz, 200MHz
Data Converters	A/D 34x12b; D/A 4x12b	A/D 34x12b; D/A 4x12b	A/D 31x12b; D/A 4x12b	A/D 23x12b; D/A 4x12b
Base Product Number	DSPIC33CH128MP508	DSPIC33CH256MP508	DSPIC33CH256MP505	DSPIC33CH128MP202

### DSPIC33CH128MP508-I/PT Datasheet PDF


Download DSPIC33CH128MP508-I/PT pdf datasheets and Microchip Technology documentation for DSPIC33CH128MP508-I/PT - Microchip Technology.

#### Datasheets

dsPIC33CH128MP508 Family Datasheet.pdf

#### PCN Packaging

## Errata

 dsPIC33CH128MP508 Family Errata.pdf


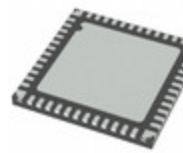


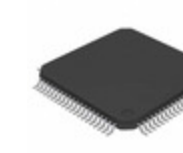












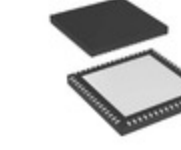
## PCN Design/Specification

 dsPIC33CH128MP508 20/Sep/2019.pdf

 dsPIC33CH128MP508 Errata/DS 27/Nov/2018.pdf

## Customers Also Interested in

### Recommended Products

					
<b>DSPIC33CH256MP508T-I/PT</b> Microchip Technology IC MCU 16BIT 328KB FLASH 80TQFP	<b>DSPIC33CH256MP505-I/M4</b> Microchip Technology IC MCU 16BIT 328KB FLASH 48UQFN	<b>DSPIC33CH128MP202-I/SS</b> Microchip Technology IC MCU 16BIT 152KB FLASH 28SSOP	<b>DSPIC33CH128MP205T-I/PT</b> Microchip Technology IC MCU 16BIT 152KB FLASH 48TQFP	<b>DSPIC33CH256MP208-I/PT</b> Microchip Technology IC MCU 16BIT 328KB FLASH 80TQFP	<b>DSPIC33CH128MP202-E/SS</b> Microchip Technology IC MCU 16BIT 152KB FLASH 28SSOP
					
<b>DSPIC33CH128MP202-I/2N</b> Microchip Technology IC MCU 16BIT 152KB FLASH 28UQFN	<b>DSPIC30F6014A-I/PF</b> Micrel / Microchip Technology	<b>DSPIC33CH128MP202T-I/SS</b> Microchip Technology IC MCU 16BIT 152KB FLASH 28SSOP	<b>DSPIC33CH256MP206-E/PT</b> Microchip Technology IC MCU 16BIT 328KB FLASH 64TQFP	<b>DSPIC30F6014-I/PF</b> Micrel / Microchip Technology	<b>DSPIC30F6015-20E/PT</b> Microchip Technology IC MCU 16BIT 144KB FLASH 64TQFP
					
<b>DSPIC30F6014A-30I/PF</b> Microchip Technology IC MCU 16BIT 144KB FLASH 80TQFP	<b>DSPIC33CH128MP508T-I/PT</b> Microchip Technology IC MCU 16BIT 152KB FLASH 80TQFP	<b>DSPIC30F6015-30I/PT</b> Microchip Technology IC MCU 16BIT 144KB FLASH 64TQFP	<b>DSPIC33CH256MP508-E/PT</b> Microchip Technology IC MCU 16BIT 328KB FLASH 80TQFP	<b>DSPIC33CH256MP506-I/PT</b> Microchip Technology IC MCU 16BIT 328KB FLASH 64TQFP	<b>DSPIC33CH256MP506-I/MR</b> Microchip Technology IC MCU 16BIT 328KB FLASH 64QFN

## 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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-  Fast Sourcing & Delivery

Contact us if you have any questions.

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-  Email  
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### Contact us

Address: Flat/Rm C 13/F Harvard Commercial Building 105-111 Thomson Road, Wan Chai, Hong Kong  
Phone: +00852 9146 4856  
Fax: +00852 3010 8510  
Email: info@Allelco.com

