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See specifications for product details.



DSPIC33FJ256MC510A-E/PF

Manufacturer Part Number **DSPIC33FJ256MC510A-E/PF**

Manufacturer **Microchip Technology**

Allelco Part Number **32D-DSPIC33FJ256MC510A-E/PF**

ECAD Model Request Free CAD Models

Parts Description **IC MCU 16BIT 256KB FLASH 100TQFP**

Package **100-TQFP**

Data sheet **16-bit Embedded Control Solutions.pdf**

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DSPIC33FJzzzMCX06/8/10A.pdf

RoHs Status **ROHS3 Compliant**

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Specifications

DSPIC33FJ256MC510A-E/PF Tech Specifications

DSPIC33FJ256MC510A-E/PF - 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	100-TQFP (14x14)	Number of I/O	85
Speed	40 MIPS	Mounting Type	Surface Mount
Series	Automotive, AEC-Q100, dsPIC™ 33F	EEPROM Size	-
RAM Size	16K x 8	Data Converters	A/D 24x10/12b
Program Memory Type	FLASH	Core Size	16-Bit
Program Memory Size	256KB (256K x 8)	Core Processor	dsPIC
Peripherals	Brown-out Detect/Reset, DMA, Motor Control PWM, POR, PWM, QEI, WDT	Connectivity	CANbus, I ² C, IrDA, LINbus, SPI, UART/USART
Package / Case	100-TQFP	Base Product Number	DSPIC33FJ256MC510
Package	Tray		

Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology DSPIC33FJ256MC510A-E/PF

Product Attribute				
Part Number	DSPIC33FJ256MC510A-E/PF	DSPIC33FJ32GP102-I/SO	DSPIC33FJ256MC710-I/PF	DSPIC33FJ256GP710A-E/PF
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
Speed	40 MIPS	16 MIPS	40 MIPS	40 MIPS
Core Size	16-Bit	16-Bit	16-Bit	16-Bit
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Peripherals	Brown-out Detect/Reset, DMA, Motor Control PWM, POR, PWM, QEI, WDT	Brown-out Detect/Reset, POR, PWM, WDT	Brown-out Detect/Reset, DMA, Motor Control PWM, POR, PWM, QEI, WDT	AC97, Brown-out Detect/Reset, DMA, I ² S, POR, PWM, WDT
Operating Temperature	-40°C ~ 125°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 125°C (TA)
RAM Size	16K x 8	1K x 16	30K x 8	30K x 8
Core Processor	dsPIC	dsPIC	dsPIC	dsPIC
Connectivity	CANbus, I ² C, IrDA, LINbus, SPI, UART/USART	I ² C, IrDA, LINbus, SPI, UART/USART	CANbus, I ² C, IrDA, LINbus, SPI, UART/USART	CANbus, I ² C, IrDA, LINbus, SPI, UART/USART
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Package	Tray	Tube	Tray	Tray
Supplier Device Package	100-TQFP (14x14)	28-SOIC	100-TQFP (14x14)	100-TQFP (14x14)
Number of I/O	85	21	85	85
Base Product Number	DSPIC33FJ256MC510	DSPIC33FJ32GP102	DSPIC33FJ256MC710	DSPIC33FJ256GP710
Series	Automotive, AEC-Q100, dsPIC™ 33F	dsPIC™ 33F	dsPIC™ 33F	Automotive, AEC-Q100, dsPIC™ 33F
EEPROM Size	-	-	-	-
Voltage - Supply (Vcc/Vdd)	3V ~ 3.6V	3V ~ 3.6V	3V ~ 3.6V	3V ~ 3.6V
Package / Case	100-TQFP	28-SOIC (0.295", 7.50mm Width)	100-TQFP	100-TQFP
Program Memory Size	256KB (256K x 8)	32KB (11K x 24)	256KB (256K x 8)	256KB (256K x 8)
Data Converters	A/D 24x10/12b	A/D 8x10b	A/D 24x10/12b	A/D 32x10b/12b
Oscillator Type	Internal	Internal	Internal	Internal

DSPIC33FJ256MC510A-E/PF Datasheet PDF

Download DSPIC33FJ256MC510A-E/PF pdf datasheets and Microchip Technology documentation for DSPIC33FJ256MC510A-E/PF - Microchip Technology.


Datasheets

16-bit Embedded Control Solutions.pdf


DSPIC33FJzzzMCX06/8/10A.pdf

PCN Packaging

 Label and Packing Changes 23/Sep/2015.pdf

 New Packing Material 02/Aug/2019.pdf

HTML Datasheet




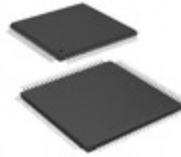
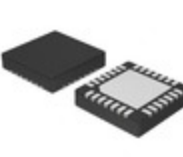
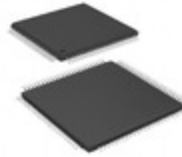
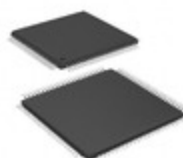
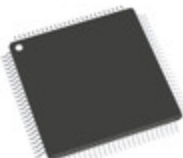
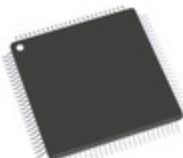
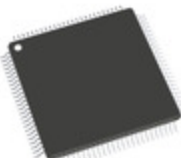
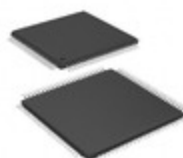







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PCN Assembly/Origin

 Mult Devices Assembly 10/Aug/2018.pdf

Customers Also Interested in

Recommended Products

					
DSPIC33FJ32GP102-I/SO	DSPIC33FJ256MC710-I/PF	DSPIC33FJ256GP710A-E/PF	DSPIC33FJ256GP710A-I/PT	DSPIC33FJ32GP202-E/MM	DSPIC33FJ256MC710A-E/PT
Microchip Technology IC MCU 16BIT 32KB FLASH 28SOIC	Microchip Technology IC MCU 16BIT 256KB FLASH 100TQFP	Microchip Technology IC MCU 16BIT 256KB FLASH 100TQFP	Microchip Technology IC MCU 16BIT 256KB FLASH 100TQFP	Microchip Technology IC MCU 16BIT 32KB FLASH 28QFN	Microchip Technology IC MCU 16BIT 256KB FLASH 100TQFP
					
DSPIC33FJ256GP710-I/PT	DSPIC33FJ256GP710-I/PF	DSPIC33FJ256MC710A-I/PF	DSPIC33FJ256GP710A-I/PF	DSPIC33FJ256MC710A-I/PT	DSPIC33FJ256MC710-I/PT
Microchip Technology IC MCU 16BIT 256KB FLASH 100TQFP	Microchip Technology IC MCU 16BIT 256KB FLASH 100TQFP	Microchip Technology IC MCU 16BIT 256KB FLASH 100TQFP	Microchip Technology IC MCU 16BIT 256KB FLASH 100TQFP	Microchip Technology IC MCU 16BIT 256KB FLASH 100TQFP	Microchip Technology IC MCU 16BIT 256KB FLASH 100TQFP
					
DSPIC33FJ256MC510A-I/PT	DSPIC33FJ256MC510A-E/PT	DSPIC33FJ256GP510A-I/PT	DSPIC33FJ256GP710A-E/PT	DSPIC33FJ256MC510-I/PT	DSPIC33FJ256GP510-I/PT
Microchip Technology IC MCU 16BIT 256KB FLASH 100TQFP	Microchip Technology IC MCU 16BIT 256KB FLASH 100TQFP	Microchip Technology IC MCU 16BIT 256KB FLASH 100TQFP	Microchip Technology IC MCU 16BIT 256KB FLASH 100TQFP	Microchip Technology IC MCU 16BIT 256KB FLASH 100TQFP	Microchip Technology IC MCU 16BIT 256KB FLASH 100TQFP

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

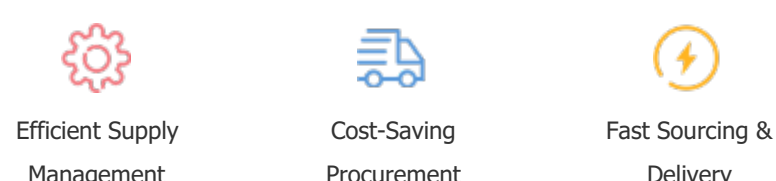
Note: The above table is for reference only. There may have some data bias for the uncontrollable factors. Contact us if you have any questions.

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 -



Contact us if you have any questions.



Certifications & Memberships



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