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See specifications for product details.



DSPIC33EP256GP506-I/MR

Manufacturer Part Number	DSPIC33EP256GP506-I/MR
Manufacturer	Microchip Technology
Allelco Part Number	32D-DSPIC33EP256GP506-I/MR
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 16BIT 256KB FLASH 64VQFN
Package	64-VFQFN Exposed Pad
Data sheet	dsPIC(33,24)EPzzz(GP,MC)20x,50x Datasheet.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

DSPIC33EP256GP506-I/MR - Microchip Technology. New Original in Stock. Download Linear Technology DSPIC33EP256GP506-I/MR datasheet/specifications on AllelcoElec.com.
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Specifications

DSPIC33EP256GP506-I/MR Tech Specifications
DSPIC33EP256GP506-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	16K x 16	Data Converters	A/D 16x10b/12b
Program Memory Type	FLASH	Core Size	16-Bit
Program Memory Size	256KB (85.5K x 24)	Core Processor	dsPIC
Peripherals	Brown-out Detect/Reset, DMA, POR, PWM, WDT	Connectivity	CANbus, I ² C, IrDA, LINbus, SPI, UART/USART
Package / Case	64-VFQFN Exposed Pad	Base Product Number	DSPIC33EP256GP506
Package	Tube		

Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology DSPIC33EP256GP506-I/MR

Product Attribute				
Part Number	DSPIC33EP256GP506-I/MR	DSPIC33EP256MC506-E/PT	DSPIC33EP256MC206-E/PT	DSPIC33EP256GP504-I/ML
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
Base Product Number	DSPIC33EP256GP506	DSPIC33EP256MC506	DSPIC33EP256MC206	DSPIC33EP256GP504
Package	Tube	Tray	Tray	Tube
RAM Size	16K x 16	16K x 16	16K x 16	16K x 16
Supplier Device Package	64-VQFN (9x9)	64-TQFP (10x10)	64-TQFP (10x10)	44-QFN (8x8)
Voltage - Supply (Vcc/Vdd)	3V ~ 3.6V	3V ~ 3.6V	3V ~ 3.6V	3V ~ 3.6V
Program Memory Size	256KB (85.5K x 24)	256KB (85.5K x 24)	256KB (85.5K x 24)	256KB (85.5K x 24)
Number of I/O	53	53	53	35
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, Motor Control PWM, POR, PWM, WDT	Brown-out Detect/Reset, DMA, POR, PWM, WDT
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Speed	70 MIPS	60 MIPS	60 MIPS	70 MIPS
Core Processor	dsPIC	dsPIC	dsPIC	dsPIC
Oscillator Type	Internal	Internal	Internal	Internal
Connectivity	CANbus, I ² C, IrDA, LINbus, SPI, UART/USART	CANbus, I ² C, IrDA, LINbus, QEI, SPI, UART/USART	I ² C, IrDA, LINbus, QEI, SPI, UART/USART	CANbus, I ² C, IrDA, LINbus, SPI, UART/USART
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 125°C (TA)	-40°C ~ 125°C (TA)	-40°C ~ 85°C (TA)
Package / Case	64-VFQFN Exposed Pad	64-TQFP	64-TQFP	44-VQFN Exposed Pad
EEPROM Size	-	-	-	-
Data Converters	A/D 16x10b/12b	A/D 16x10b/12b	A/D 16x10b/12b	A/D 9x10b/12b
Series	dsPIC™ 33EP	Automotive, AEC-Q100, dsPIC™ 33EP	Automotive, AEC-Q100, dsPIC™ 33EP	dsPIC™ 33EP
Core Size	16-Bit	16-Bit	16-Bit	16-Bit
Program Memory Type	FLASH	FLASH	FLASH	FLASH

DSPIC33EP256GP506-I/MR Datasheet PDF

Download DSPIC33EP256GP506-I/MR pdf datasheets and Microchip Technology documentation for DSPIC33EP256GP506-I/MR - Microchip Technology.

Datasheets

dsPIC(33,24)EPzzz(GP,MC)20x,50x Datasheet.pdf

PCN Packaging

Label and Packing Changes 23/Sep/2015.pdf

Packing Changes 10/Oct/2016.pdf

PCN Design/Specification

dsPIC33EP/PIC24EP 18/Jun/2020.pdf



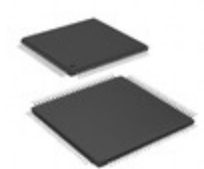

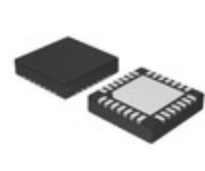
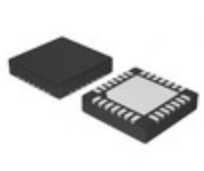



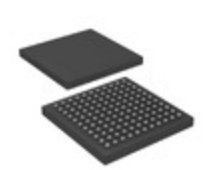

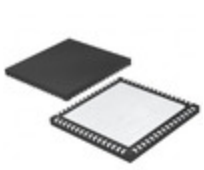
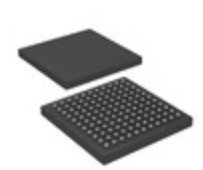
Multiple Devices Datasheet Revision 20/Aug/2013.pdf

PCN Assembly/Origin

2.73KHz.pdf

Customers Also Interested in

Recommended Products

					
DSPIC33EP256MC506-E/PT	DSPIC33EP256MC206-E/PT	DSPIC33EP256GP504-I/ML	DSPIC33EP256GM710-I/PT	DSPIC33EP256MC504-I/PT	DSPIC33EP256GP502-I/SP
Microchip Technology IC MCU 16BIT 256KB FLASH 64TQFP	Microchip Technology IC MCU 16BIT 256KB FLASH 64TQFP	Microchip Technology IC MCU 16BIT 256KB FLASH 44QFN	Microchip Technology IC MCU 16BIT 256KB FLASH 100TQFP	Microchip Technology IC MCU 16BIT 256KB FLASH 44TQFP	Microchip Technology IC MCU 16BIT 256KB FLASH 28SPDIP
					
DSPIC33EP256MC206T-I/PT	DSPIC33EP256MC204-I/PT	DSPIC33EP256GP502T-I/MM	DSPIC33EP256GP502-I/SS	DSPIC33EP256GP502-I/MM	DSPIC33EP256GP502-I/SO
Microchip Technology IC MCU 16BIT 256KB FLASH 64TQFP	Microchip Technology IC MCU 16BIT 256KB FLASH 44TQFP	Microchip Technology IC MCU 16BIT 256KB FLASH 28QFN	Microchip Technology IC MCU 16BIT 256KB FLASH 28SSOP	Microchip Technology IC MCU 16BIT 256KB FLASH 28QFN	Microchip Technology IC MCU 16BIT 256KB FLASH 28SOIC
					
DSPIC33EP256MC502-I/SO	DSPIC33EP256GP506-I/PT	DSPIC33EP256GM710-E/BG	DSPIC33EP256MC206-I/PT	DSPIC33EP256GP506T-I/MR	DSPIC33EP256GM710-I/BG
Microchip Technology IC MCU 16BIT 256KB FLASH 28SOIC	Microchip Technology IC MCU 16BIT 256KB FLASH 64TQFP	Microchip Technology IC MCU 16BIT 256KB FLSH 121TFBGA	Microchip Technology IC MCU 16BIT 256KB FLASH 64TQFP	Microchip Technology IC MCU 16BIT 256KB FLASH 64VQFN	Microchip Technology IC MCU 16BIT 256KB FLSH 121TFBGA

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:
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Contact us if you have any questions.

	
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