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See specifications for product details.



DSPIC33EP512MU810-E/BG

Manufacturer Part Number **DSPIC33EP512MU810-E/BG**

Manufacturer **Microchip Technology**

Allelco Part Number **32D-DSPIC33EP512MU810-E/BG**

ECAD Model PCB Symbol, Footprint & 3D Mode

Parts Description **IC MCU 16BIT 512KB FLSH 121TFBGA**

Package **121-TFBGA**

Data sheet **Cylindrical Battery Holders.pdf**

dsPIC(33,24)EPzzz(MU,GU)8xx Datasheet.pdf

RoHs Status **ROHS3 Compliant**

Get a Quote

DSPIC33EP512MU810-E/BG - Microchip Technology.New Original in Stock. Download Linear Technology DSPIC33EP512MU810-E/BG datasheet/specifications on AllelcoElec.com.

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Specifications

DSPIC33EP512MU810-E/BG Tech Specifications

DSPIC33EP512MU810-E/BG - 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	121-TFBGA (10x10)	Number of I/O	83
Speed	60 MIPS	Mounting Type	Surface Mount
Series	Automotive, AEC-Q100, dsPIC™ 33EP	EEPROM Size	-
RAM Size	24K x 16	Data Converters	A/D 32x10b/12b
Program Memory Type	FLASH	Core Size	16-Bit
Program Memory Size	512KB (170K x 24)	Core Processor	dsPIC
Peripherals	Brown-out Detect/Reset, DMA, Motor Control PWM, POR, PWM, WDT	Connectivity	CANbus, I ² C, IrDA, LINbus, QEI, SPI, UART/USART, USB OTG
Package / Case	121-TFBGA	Base Product Number	DSPIC33EP512MU810
Package	Tray		

Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology DSPIC33EP512MU810-E/BG

Product Attribute				
Part Number	DSPIC33EP512MU810-E/BG	DSPIC33EP512MC806-I/PT	DSPIC33EP512MU814-I/PL	DSPIC33EP64GP504-I/PT
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
Program Memory Size	512KB (170K x 24)	512KB (170K x 24)	512KB (170K x 24)	64KB (22K x 24)
Core Size	16-Bit	16-Bit	16-Bit	16-Bit
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Data Converters	A/D 32x10b/12b	A/D 24x10/12b	A/D 32x10b/12b	A/D 9x10b/12b
Operating Temperature	-40°C ~ 125°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Number of I/O	83	53	122	35
Connectivity	CANbus, I ² C, IrDA, LINbus, QEI, SPI, UART/USART, USB OTG	CANbus, I ² C, IrDA, LINbus, QEI, SPI, UART/USART	CANbus, I ² C, IrDA, LINbus, QEI, SPI, UART/USART, USB OTG	CANbus, I ² C, IrDA, LINbus, SPI, UART/USART
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Oscillator Type	Internal	Internal	Internal	Internal
Series	Automotive, AEC-Q100, dsPIC™ 33EP	dsPIC™ 33EP	dsPIC™ 33EP	dsPIC™ 33EP
EEPROM Size	-	-	-	-
Peripherals	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, Motor Control PWM, POR, PWM, WDT	Brown-out Detect/Reset, DMA, POR, PWM, WDT
RAM Size	24K x 16	24K x 16	24K x 16	4K x 16
Package	Tray	Tray	Tray	Tray
Base Product Number	DSPIC33EP512MU810	DSPIC33EP512MC806	DSPIC33EP512MU814	DSPIC33EP64GP504
Package / Case	121-TFBGA	64-TQFP	144-LQFP	44-TQFP
Core Processor	dsPIC	dsPIC	dsPIC	dsPIC
Supplier Device Package	121-TFBGA (10x10)	64-TQFP (10x10)	144-LQFP (20x20)	44-TQFP (10x10)
Speed	60 MIPS	70 MIPS	70 MIPS	70 MIPS
Voltage - Supply (Vcc/Vdd)	3V ~ 3.6V	3V ~ 3.6V	3V ~ 3.6V	3V ~ 3.6V

DSPIC33EP512MU810-E/BG Datasheet PDF

Download DSPIC33EP512MU810-E/BG pdf datasheets and Microchip Technology documentation for DSPIC33EP512MU810-E/BG - Microchip Technology.

Datasheets

dsPIC(33,24)EPzzz(MU,GU)8xx Datasheet.pdf

PCN Packaging

2.73KHz.pdf

HTML Datasheet

Cylindrical Battery Holders.pdf

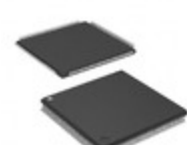
Customers Also Interested in

Recommended Products



DSPIC33EP512MC806-I/PT

Microchip Technology
IC MCU 16BIT 512KB FLASH 64TQFP



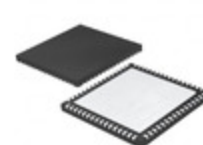
DSPIC33EP512MU814-I/PL

Microchip Technology
IC MCU 16BIT 512KB FLASH 144LQFP



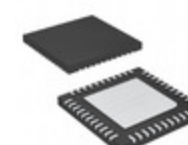
DSPIC33EP64GP504-I/PT

Microchip Technology
IC MCU 16BIT 64KB FLASH 44TQFP



DSPIC33EP512MC806-I/MR

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IC MCU 16BIT 512KB FLASH 64VQFN



DSPIC33EP512MC504-H/ML

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IC MCU 16BIT 512KB FLASH 44QFN



DSPIC33EP512GP806-I/PT

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IC MCU 16BIT 512KB FLASH 64TQFP



DSPIC33EP512GP504-I/PT

Microchip Technology
IC MCU 16BIT 512KB FLASH 44TQFP



DSPIC33EP512MU814-E/PH

Microchip Technology
IC MCU 16BIT 512KB FLASH 144TQFP



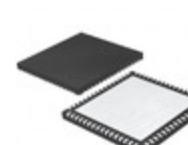
DSPIC33EP512GP504-E/PT

Microchip Technology
IC MCU 16BIT 512KB FLASH 44TQFP



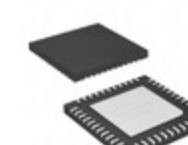
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Microchip Technology
IC MCU 16BIT 512KB FLASH 100TQFP



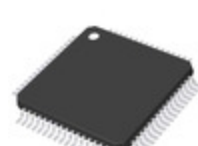
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Microchip Technology
IC MCU 16BIT 512KB FLASH 64VQFN



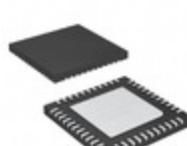
DSPIC33EP64GP504-I/ML

Microchip Technology
IC MCU 16BIT 64KB FLASH 44QFN



DSPIC33EP512MC506-I/PT

Microchip Technology
IC MCU 16BIT 512KB FLASH 64TQFP



DSPIC33EP64GS504-I/ML

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IC MCU 16BIT 64KB FLASH 44QFN



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IC MCU 16BIT 512KB FLASH 44TQFP



DSPIC33EP512MC504-I/PT

Microchip Technology
IC MCU 16BIT 512KB FLASH 44TQFP



DSPIC33EP64GS502-I/SO

Microchip Technology
IC MCU 16BIT 64KB FLASH 28SOIC



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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