



Image may be representation.  
See specifications for product details.



## DSPIC33FJ16GS504-50I/PT

Manufacturer Part Number	<b>DSPIC33FJ16GS504-50I/PT</b>
Manufacturer	<b>Microchip Technology</b>
Allelco Part Number	32D-DSPIC33FJ16GS504-50I/PT
ECAD Model	Request Free CAD Models
Parts Description	IC MCU 16BIT 16KB FLASH 44TQFP
Package	44-TQFP
Data sheet	<b>16-bit Embedded Control Solutions.pdf</b> <b>dsPIC33FJ06GS101/X02, dsPIC33FJ16GSX02/X04.pdf</b> <b>16-bit Embedded Control Solutions.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

DSPIC33FJ16GS504-50I/PT - Microchip Technology.New Original in Stock. Download Linear Technology DSPIC33FJ16GS504-50I/PT datasheet/specifications on AllelcoElec.com.  
Request a quote for DSPIC33FJ16GS504-50I/PT, please send us email: [info@allelco.com](mailto:info@allelco.com)

## Specifications

DSPIC33FJ16GS504-50I/PT Tech Specifications  
DSPIC33FJ16GS504-50I/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	44-TQFP (10x10)	Number of I/O	35
Speed	50 MIPS	Mounting Type	Surface Mount
Series	dsPIC™ 33F	EEPROM Size	-
RAM Size	2K x 8	Data Converters	A/D 24x10b; D/A 4x10b
Program Memory Type	FLASH	Core Size	16-Bit
Program Memory Size	16KB (16K x 8)	Core Processor	dsPIC
Peripherals	Brown-out Detect/Reset, POR, PWM, WDT	Connectivity	I²C, IrDA, LINbus, SPI, UART/USART
Package / Case	44-TQFP	Base Product Number	DSPIC33FJ16GS504
Package	Tray		

## Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology DSPIC33FJ16GS504-50I/PT

Product Attribute				
Part Number	DSPIC33FJ16GS504-50I/PT	DSPIC33FJ16GS502-E/SO	DSPIC33FJ16MC101-I/SS	DSPIC33FJ16GS502-I/SO
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Voltage - Supply (Vcc/Vdd)	3V ~ 3.6V	3V ~ 3.6V	3V ~ 3.6V	3V ~ 3.6V
Core Size	16-Bit	16-Bit	16-Bit	16-Bit
EEPROM Size	-	-	-	-
Series	dsPIC™ 33F	Automotive, AEC-Q100, dsPIC™ 33F	dsPIC™ 33F	dsPIC™ 33F
Package	Tray	Tube	Tube	Tube
Supplier Device Package	44-TQFP (10x10)	28-SOIC	20-SSOP	28-SOIC
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 125°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Data Converters	A/D 24x10b; D/A 4x10b	A/D 16x10b; D/A 4x10b	A/D 4x10b	A/D 16x10b; D/A 4x10b
Program Memory Size	16KB (16K x 8)	16KB (16K x 8)	16KB (16K x 8)	16KB (16K x 8)
Peripherals	Brown-out Detect/Reset, POR, PWM, WDT	Brown-out Detect/Reset, POR, PWM, WDT	Brown-out Detect/Reset, Motor Control PWM, POR, PWM, WDT	Brown-out Detect/Reset, POR, PWM, WDT
Connectivity	I²C, IrDA, LINbus, SPI, UART/USART	I²C, IrDA, LINbus, SPI, UART/USART	I²C, IrDA, LINbus, SPI, UART/USART	I²C, IrDA, LINbus, SPI, UART/USART
Base Product Number	DSPIC33FJ16GS504	DSPIC33FJ16GS502	DSPIC33FJ16MC101	DSPIC33FJ16GS502
Number of I/O	35	21	15	21
Package / Case	44-TQFP	28-SOIC (0.295", 7.50mm Width)	20-SSOP (0.209", 5.30mm Width)	28-SOIC (0.295", 7.50mm Width)
Oscillator Type	Internal	Internal	Internal	Internal
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Core Processor	dsPIC	dsPIC	dsPIC	dsPIC
RAM Size	2K x 8	2K x 8	1K x 8	2K x 8
Speed	50 MIPS	40 MIPS	16 MIPS	40 MIPS

## DSPIC33FJ16GS504-50I/PT Datasheet PDF

Download DSPIC33FJ16GS504-50I/PT pdf datasheets and Microchip Technology documentation for DSPIC33FJ16GS504-50I/PT - Microchip Technology.

### Datasheets

dsPIC33FJ06GS101/X02, dsPIC33FJ16GSX02/X04.pdf

16-bit Embedded Control Solutions.pdf

### PCN Packaging

Label and Packing Changes 23/Sep/2015.pdf

MBB/Label Chgs 16/Nov/2018.pdf

### HTML Datasheet

16-bit Embedded Control Solutions.pdf

### PCN Assembly/Origin








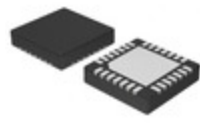
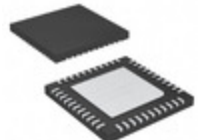
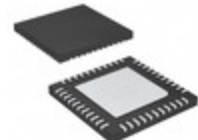
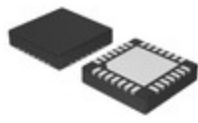



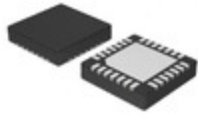
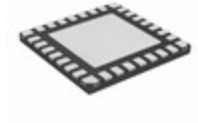


Wire 27/Mar/2018.pdf

### PCN Design/Specification

New DeviceDoc 25/Apr/2016.pdf

## Customers Also Interested in

### Recommended Products

					
<b>DSPIC33FJ16GS504T-E/PTD22</b>	<b>DSPIC33FJ16GS502-E/SO</b>	<b>DSPIC33FJ16GS502T-E/SO</b>	<b>DSPIC33FJ16GS502T-E/MM</b>	<b>DSPIC33FJ16GS502T-E/MMV02</b>	<b>DSPIC33FJ16MC101-I/SS</b>
Micrel / Microchip Technology	Microchip Technology IC MCU 16BIT 16KB FLASH 28SOIC	Micrel / Microchip Technology	Micrel / Microchip Technology	Micrel / Microchip Technology	Microchip Technology IC MCU 16BIT 16KB FLASH 20SSOP
					
<b>DSPIC33FJ16GS502-I/SO</b>	<b>DSPIC33FJ16GS502T-I/MM</b>	<b>DSPIC33FJ16GS504-I/ML</b>	<b>DSPIC33FJ16GS504T-I/ML</b>	<b>DSPIC33FJ16GS502T-50I/MM</b>	<b>DSPIC33FJ16GS504T-50I/PT</b>
Microchip Technology IC MCU 16BIT 16KB FLASH 28SOIC	Microchip Technology IC MCU 16BIT 16KB FLASH 28QFN	Microchip Technology IC MCU 16BIT 16KB FLASH 44QFN	Microchip Technology IC MCU 16BIT 16KB FLASH 44QFN	Microchip Technology IC MCU 16BIT 16KB FLASH 28QFN	Microchip Technology IC MCU 16BIT 16KB FLASH 44TQFP
					
<b>DSPIC33FJ16GS504-I/PT</b>	<b>DSPIC33FJ16GS504T-I/PT</b>	<b>DSPIC33FJ16GS502-I/MM</b>	<b>DSPIC33FJ16GS502-E/MX</b>	<b>DSPIC33FJ16GS504-E/PT</b>	<b>DSPIC33FJ16GS502T-I/SO</b>
Microchip Technology IC MCU 16BIT 16KB FLASH 44TQFP	Microchip Technology IC MCU 16BIT 16KB FLASH 44TQFP	Microchip Technology IC MCU 16BIT 16KB FLASH 28QFN	Microchip Technology IC MCU 16BIT 16KB FLASH 28UQFN	Microchip Technology IC MCU 16BIT 16KB FLASH 44TQFP	Microchip Technology IC MCU 16BIT 16KB 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.

	
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### Certifications & Memberships



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