



Image may be representation.  
See specifications for product details.



## DSPIC30F4013-20I/PT

Manufacturer Part Number [DSPIC30F4013-20I/PT](#)

Manufacturer [Microchip Technology](#)

Allelco Part Number 32D-DSPIC30F4013-20I/PT

ECAD Model PCB Symbol, Footprint & 3D Model

Parts Description IC MCU 16BIT 48KB FLASH 44TQFP

Package 44-TQFP

Data sheet [16-bit Embedded Control Solutions.pdf](#)

[DSPIC30F Flash Programming Specification.pdf](#)

[16-bit Embedded Control Solutions.pdf](#)

[DSPIC30F3014, 4013.pdf](#)

RoHs Status ROHS3 Compliant

[Get a Quote](#)

DSPIC30F4013-20I/PT - Microchip Technology. New Original in Stock. Download Linear Technology DSPIC30F4013-20I/PT datasheet/specifications on AllelcoElec.com. Request a quote for DSPIC30F4013-20I/PT, please send us email: [info@allelco.com](mailto:info@allelco.com)

## Specifications

DSPIC30F4013-20I/PT Tech Specifications

DSPIC30F4013-20I/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)	2.5V ~ 5.5V	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package	44-TQFP (10x10)	Number of I/O	30
Speed	20 MIPS	Mounting Type	Surface Mount
Series	dsPIC™ 30F	EEPROM Size	1K x 8
RAM Size	2K x 8	Data Converters	A/D 13x12b
Program Memory Type	FLASH	Core Size	16-Bit
Program Memory Size	48KB (16K x 24)	Core Processor	dsPIC
Peripherals	AC97, Brown-out Detect/Reset, I <sup>2</sup> S, POR, PWM, WDT	Connectivity	CANbus, I <sup>2</sup> C, SPI, UART/USART
Package / Case	44-TQFP	Base Product Number	DSPIC30F4013
Package	Tray		

## Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology DSPIC30F4013-20I/PT

Product Attribute					
Part Number	DSPIC30F4013-20I/PT	<a href="#">DSPIC30F4012-20E/SO</a>	<a href="#">DSPIC30F4012-30I/SP</a>	<a href="#">DSPIC30F4013-30I/P</a>	
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology	
Voltage - Supply (Vcc/Vdd)	2.5V ~ 5.5V	2.5V ~ 5.5V	2.5V ~ 5.5V	2.5V ~ 5.5V	
Number of I/O	30	20	20	30	
Core Size	16-Bit	16-Bit	16-Bit	16-Bit	
Series	dsPIC™ 30F	dsPIC™ 30F	dsPIC™ 30F	dsPIC™ 30F	
Supplier Device Package	44-TQFP (10x10)	28-SOIC	28-SPDIP	40-PDIP	
Program Memory Size	48KB (16K x 24)	48KB (16K x 24)	48KB (16K x 24)	48KB (16K x 24)	
Speed	20 MIPS	20 MIPS	30 MIPS	30 MIPS	
Package	Tray	Tube	Tube	Tube	
Oscillator Type	Internal	Internal	Internal	Internal	
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 125°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	
Connectivity	CANbus, I <sup>2</sup> C, SPI, UART/USART	CANbus, I <sup>2</sup> C, SPI, UART/USART	CANbus, I <sup>2</sup> C, SPI, UART/USART	CANbus, I <sup>2</sup> C, SPI, UART/USART	
EEPROM Size	1K x 8	1K x 8	1K x 8	1K x 8	
RAM Size	2K x 8	2K x 8	2K x 8	2K x 8	
Peripherals	AC97, Brown-out Detect/Reset, I <sup>2</sup> S, POR, PWM, WDT	Brown-out Detect/Reset, Motor Control PWM, QEI, POR, PWM, WDT	Brown-out Detect/Reset, Motor Control PWM, QEI, POR, PWM, WDT	AC97, Brown-out Detect/Reset, I <sup>2</sup> S, POR, PWM, WDT	
Program Memory Type	FLASH	FLASH	FLASH	FLASH	
Core Processor	dsPIC	dsPIC	dsPIC	dsPIC	
Base Product Number	DSPIC30F4013	DSPIC30F4012	DSPIC30F4012	DSPIC30F4013	
Package / Case	44-TQFP	28-SOIC (0.295", 7.50mm Width)	28-DIP (0.300", 7.62mm)	40-DIP (0.600", 15.24mm)	
Mounting Type	Surface Mount	Surface Mount	Through Hole	Through Hole	
Data Converters	A/D 13x12b	A/D 6x10b	A/D 6x10b	A/D 13x12b	

## DSPIC30F4013-20I/PT Datasheet PDF

Download DSPIC30F4013-20I/PT pdf datasheets and Microchip Technology documentation for DSPIC30F4013-20I/PT - Microchip Technology.

### Datasheets



[DSPIC30F Flash Programming Specification.pdf](#)



[16-bit Embedded Control Solutions.pdf](#)



[DSPIC30F3014, 4013.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 Design/Specification








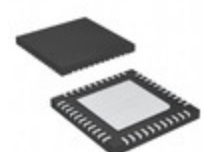










 TQFP-44L Palladium Coated Copper Wire 17/Dec/2013.pdf

## PCN Assembly/Origin

 Wire 27/Mar/2018.pdf

## Customers Also Interested in

### Recommended Products

					
<b>DSPIC30F4013-I/PT</b>	<b>DSPIC30F4012-20E/SO</b>	<b>DSPIC30F4012-30I/SP</b>	<b>DSPIC30F4013-30I/P</b>	<b>DSPIC30F4013-20E/PT</b>	<b>DSPIC30F5011-20E/PT</b>
Micrel / Microchip Technology	Microchip Technology IC MCU 16BIT 48KB FLASH 28SOIC	Microchip Technology IC MCU 16BIT 48KB FLASH 28SPDIP	Microchip Technology IC MCU 16BIT 48KB FLASH 40DIP	Microchip Technology IC MCU 16BIT 48KB FLASH 44TQFP	Microchip Technology IC MCU 16BIT 66KB FLASH 64TQFP
					
<b>DSPIC30F4013-20I/P</b>	<b>DSPIC30F4012-30I/ML</b>	<b>DSPIC30F5011-30I/PT</b>	<b>DSPIC30F4012-I/MLG</b>	<b>DSPIC30F4013-30I/PT</b>	<b>DSPIC30F4012-30I/SO</b>
Microchip Technology IC MCU 16BIT 48KB FLASH 40DIP	Microchip Technology IC MCU 16BIT 48KB FLASH 44QFN	Microchip Technology IC MCU 16BIT 66KB FLASH 64TQFP	Micrel / Microchip Technology	Microchip Technology IC MCU 16BIT 48KB FLASH 44TQFP	Microchip Technology IC MCU 16BIT 48KB FLASH 28SOIC
					
<b>DSPIC30F4012-20I/SP</b>	<b>DSPIC30F4012-I/SOG</b>	<b>DSPIC30F4013-I/ML</b>	<b>DSPIC30F4011T-30I/PT</b>	<b>DSPIC30F4013T-30I/PT</b>	<b>DSPIC30F5011-20I/PT</b>
Microchip Technology IC MCU 16BIT 48KB FLASH 28SPDIP	Micrel / Microchip Technology	Micrel / Microchip Technology	Microchip Technology IC MCU 16BIT 48KB FLASH 44TQFP	Microchip Technology IC MCU 16BIT 48KB FLASH 44TQFP	Microchip Technology IC MCU 16BIT 66KB FLASH 64TQFP

## 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

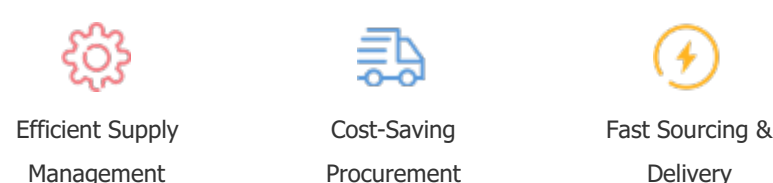
Note: The above table is for reference only. There may have some data bias for the uncontrollable factors. Contact us if you have any questions.

### 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



[View More](#)

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@Alleco.com](mailto:info@Alleco.com)