



Image may be representation.  
See specifications for product details.



## DSPIC30F5016-30I/PT

Manufacturer Part Number **DSPIC30F5016-30I/PT**

Manufacturer **Microchip Technology**

Allelco Part Number **32D-DSPIC30F5016-30I/PT**

ECAD Model **PCB Symbol, Footprint & 3D Model**

Parts Description **IC MCU 16BIT 66KB FLASH 80TQFP**

Package **80-TQFP**

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

**DSPIC30F Flash Programming Specification.pdf**

**DSPIC30F5015, 5016 Data Sheet.pdf**

RoHs Status **ROHS3 Compliant**

**Get a Quote**

DSPIC30F5016-30I/PT - Microchip Technology. New Original in Stock. Download Linear Technology DSPIC30F5016-30I/PT datasheet/specifications on AllelcoElec.com. Request a quote for DSPIC30F5016-30I/PT, please send us email: [info@allelco.com](mailto:info@allelco.com)

## Specifications

DSPIC30F5016-30I/PT Tech Specifications

DSPIC30F5016-30I/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	80-TQFP (12x12)	Number of I/O	68
Speed	30 MIPS	Mounting Type	Surface Mount
Series	dsPIC™ 30F	EEPROM Size	1K x 8
RAM Size	2K x 8	Data Converters	A/D 16x10b
Program Memory Type	FLASH	Core Size	16-Bit
Program Memory Size	66KB (22K x 24)	Core Processor	dsPIC
Peripherals	Brown-out Detect/Reset, Motor Control PWM, QEI, POR, PWM, WDT	Connectivity	CANbus, I <sup>2</sup> C, SPI, UART/USART
Package / Case	80-TQFP	Base Product Number	DSPIC30F5016
Package	Tray		

## Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology DSPIC30F5016-30I/PT

Product Attribute				
Part Number	DSPIC30F5016-30I/PT	DSPIC30F6011-20E/PF	DSPIC30F6010A-30I/PT	DSPIC30F5013T-20E/PT
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
Speed	30 MIPS	20 MIPS	30 MIPS	20 MIPS
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
Core Size	16-Bit	16-Bit	16-Bit	16-Bit
Base Product Number	DSPIC30F5016	DSPIC30F6011	DSPIC30F6010	DSPIC30F5013
EEPROM Size	1K x 8	2K x 8	4K x 8	1K x 8
Program Memory Type	FLASH	FLASH	FLASH	FLASH
RAM Size	2K x 8	6K x 8	8K x 8	4K x 8
Supplier Device Package	80-TQFP (12x12)	64-TQFP (14x14)	80-TQFP (12x12)	80-TQFP (12x12)
Oscillator Type	Internal	Internal	Internal	Internal
Voltage - Supply (Vcc/Vdd)	2.5V ~ 5.5V	2.5V ~ 5.5V	2.5V ~ 5.5V	2.5V ~ 5.5V
Core Processor	dsPIC	dsPIC	dsPIC	dsPIC
Peripherals	Brown-out Detect/Reset, Motor Control PWM, QEI, POR, PWM, WDT	Brown-out Detect/Reset, LVD, POR, PWM, WDT	Brown-out Detect/Reset, LVD, Motor Control PWM, QEI, POR, PWM, WDT	AC97, Brown-out Detect/Reset, I <sup>2</sup> S, LVD, POR, PWM, WDT
Series	dsPIC™ 30F	dsPIC™ 30F	dsPIC™ 30F	dsPIC™ 30F
Program Memory Size	66KB (22K x 24)	132KB (44K x 24)	144KB (48K x 24)	66KB (22K x 24)
Data Converters	A/D 16x10b	A/D 16x12b	A/D 16x10b	A/D 16x12b
Package	Tray	Tray	Tray	Tape & Reel (TR)
Package / Case	80-TQFP	64-TQFP	80-TQFP	80-TQFP
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 125°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 125°C (TA)
Number of I/O	68	52	68	68
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount

## DSPIC30F5016-30I/PT Datasheet PDF

Download DSPIC30F5016-30I/PT pdf datasheets and Microchip Technology documentation for DSPIC30F5016-30I/PT - Microchip Technology.

### 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

DSPIC30F Flash Programming Specification.pdf

DSPIC30F5015, 5016 Data Sheet.pdf

### PCN Assembly/Origin

Qualification Lead-Frame Paddle  
20/Oct/2014.pdf

### Customers Also Interested in

#### Recommended Products



**DSPIC30F6011-20E/PF**  
Microchip Technology  
IC MCU 16BIT 132KB FLASH 64TQFP



**DSPIC30F6010A-30I/PT**  
Microchip Technology  
IC MCU 16BIT 144KB FLASH 80TQFP



**DSPIC30F5013T-20E/PT**  
Microchip Technology  
IC MCU 16BIT 66KB FLASH 80TQFP



**DSPIC30F6010-30I/PF**  
Microchip Technology  
IC MCU 16BIT 144KB FLASH 80TQFP



**DSPIC30F6011A-20E/PT**  
Microchip Technology  
IC MCU 16BIT 132KB FLASH 64TQFP



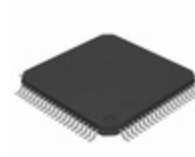
**DSPIC30F6012-20E/PF**  
Microchip Technology  
IC MCU 16BIT 144KB FLASH 64TQFP



**DSPIC30F6011A-30I/PT**  
Microchip Technology  
IC MCU 16BIT 132KB FLASH 64TQFP



**DSPIC30F6012-20I/PF**  
Microchip Technology  
IC MCU 16BIT 144KB FLASH 64TQFP



**DSPIC30F5013-30I/PT**  
Microchip Technology  
IC MCU 16BIT 66KB FLASH 80TQFP



**DSPIC30F5011T-30I/PT**  
Microchip Technology  
IC MCU 16BIT 66KB FLASH 64TQFP



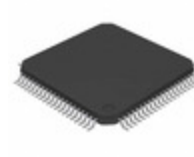
**DSPIC30F5015-30I/PT**  
Microchip Technology  
IC MCU 16BIT 66KB FLASH 64TQFP



**dsPIC30F5011-I/PT**  
Micrel / Microchip Technology



**DSPIC30F6010A-30I/PF**  
Microchip Technology  
IC MCU 16BIT 144KB FLASH 80TQFP



**DSPIC30F6010-20I/PF**  
Microchip Technology  
IC MCU 16BIT 144KB FLASH 80TQFP



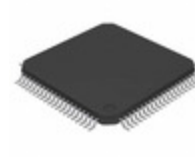
**DSPIC30F5011-20I/PT**  
Microchip Technology  
IC MCU 16BIT 66KB FLASH 64TQFP



**DSPIC30F6011A-30I/PF**  
Microchip Technology  
IC MCU 16BIT 132KB FLASH 64TQFP



**DSPIC30F5011-30I/PT**  
Microchip Technology  
IC MCU 16BIT 66KB FLASH 64TQFP



**DSPIC30F5013-20I/PT**  
Microchip Technology  
IC MCU 16BIT 66KB FLASH 80TQFP

### 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



[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@Allelco.com