



## DSPIC30F2010-20E/SO

Manufacturer Part Number	<b>DSPIC30F2010-20E/SO</b>
Manufacturer	<b>Microchip Technology</b>
Allelco Part Number	32D-DSPIC30F2010-20E/SO
ECAD Model	 Request Free CAD Models
Parts Description	IC MCU 16BIT 12KB FLASH 28SOIC
Package	28-SOIC (0.295", 7.50mm Width)
Data sheet	<a href="#">16-bit Embedded Control Solutions.pdf</a> <a href="#">DSPIC30F Flash Programming Specification.pdf</a> <a href="#">16-bit Embedded Control Solutions.pdf</a> <a href="#">dsPIC30F2010 Datasheet.pdf</a>
RoHS Status	 <b>ROHS3 Compliant</b>


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DSPIC30F2010-20E/SO - Microchip Technology. New Original in Stock. Download Linear Technology DSPIC30F2010-20E/SO datasheet/specifications on AllelcoElec.com.  
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### Specifications

DSPIC30F2010-20E/SO Tech Specifications  
 DSPIC30F2010-20E/SO - 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 ~ 125°C (TA)
Supplier Device Package	28-SOIC	Number of I/O	20
Speed	20 MIPS	Mounting Type	Surface Mount
Series	dsPIC™ 30F	EEPROM Size	1K x 8
RAM Size	512 x 8	Data Converters	A/D 6x10b
Program Memory Type	FLASH	Core Size	16-Bit
Program Memory Size	12KB (4K x 24)	Core Processor	dsPIC
Peripherals	Brown-out Detect/Reset, Motor Control PWM, QEI, POR, PWM, WDT	Connectivity	I <sup>2</sup> C, SPI, UART/USART
Package / Case	28-SOIC (0.295", 7.50mm Width)	Base Product Number	DSPIC30F2010
Package	Tube		

### Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology DSPIC30F2010-20E/SO

Product Attribute	 NO PICTURE			
Part Number	DSPIC30F2010-20E/SO	<a href="#">DSPIC30F1010-20E/SO</a>	<a href="#">DSPIC30F2010-20I/SP</a>	<a href="#">DSPIC30F2010-30I/MM</a>
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
Operating Temperature	-40°C ~ 125°C (TA)	-40°C ~ 125°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Series	dsPIC™ 30F	dsPIC™ 30F	dsPIC™ 30F	dsPIC™ 30F
Peripherals	Brown-out Detect/Reset, Motor Control PWM, QEI, POR, PWM, WDT	Brown-out Detect/Reset, 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
Core Size	16-Bit	16-Bit	16-Bit	16-Bit
Number of I/O	20	21	20	20
Supplier Device Package	28-SOIC	28-SOIC	28-SPDIP	28-QFN-S (6x6)
Mounting Type	Surface Mount	Surface Mount	Through Hole	Surface Mount
Connectivity	I <sup>2</sup> C, SPI, UART/USART	I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART	I <sup>2</sup> C, SPI, UART/USART	I <sup>2</sup> C, SPI, UART/USART
Data Converters	A/D 6x10b	A/D 6x10b	A/D 6x10b	A/D 6x10b
RAM Size	512 x 8	256 x 8	512 x 8	512 x 8
Program Memory Size	12KB (4K x 24)	6KB (2K x 24)	12KB (4K x 24)	12KB (4K x 24)
Voltage - Supply (Vcc/Vdd)	2.5V ~ 5.5V	3V ~ 5.5V	2.5V ~ 5.5V	2.5V ~ 5.5V
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Base Product Number	DSPIC30F2010	DSPIC30F1010	DSPIC30F2010	DSPIC30F2010
Package / Case	28-SOIC (0.295", 7.50mm Width)	28-SOIC (0.295", 7.50mm Width)	28-DIP (0.300", 7.62mm)	28-VQFN Exposed Pad
Speed	20 MIPS	20 MIPS	20 MIPS	30 MIPS
Package	Tube	Tube	Tube	Tube
EEPROM Size	1K x 8	-	1K x 8	1K x 8
Oscillator Type	Internal	Internal	Internal	Internal
Core Processor	dsPIC	dsPIC	dsPIC	dsPIC

### DSPIC30F2010-20E/SO Datasheet PDF

Download DSPIC30F2010-20E/SO pdf datasheets and Microchip Technology documentation for DSPIC30F2010-20E/SO - Microchip Technology.

#### Datasheets



[DSPIC30F Flash Programming Specification.pdf](#)

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


[dsPIC30F2010 Datasheet.pdf](#)

## PCN Packaging


 Label and Packing Changes 23/Sep/2015.pdf

 Packing Changes 10/Oct/2016.pdf


## HTML Datasheet

 16-bit Embedded Control Solutions.pdf

## PCN Assembly/Origin



















 SOIC-28L Revision 17/Dec/2013.pdf

## PCN Design/Specification

 dsPIC30F2010 Errata/Datasheet Update 06/Dec/2013.pdf

## Customers Also Interested in

### Recommended Products

					
<b>DSPIC30F1010-20E/SO</b>	<b>DSPIC30F2010-20I/SP</b>	<b>DSPIC30F2010-30I/MM</b>	<b>DSPIC30F2010-30I/SO</b>	<b>DSPIC VLSIFIN</b>	<b>DSPIC30F2010-30I/SP</b>
Microchip Technology IC MCU 16BIT 6KB FLASH 28SOIC	Microchip Technology IC MCU 16BIT 12KB FLASH 28SPDIP	Microchip Technology IC MCU 16BIT 12KB FLASH 28QFN	Microchip Technology IC MCU 16BIT 12KB FLASH 28SOIC	MIC	Microchip Technology IC MCU 16BIT 12KB FLASH 28SPDIP
					
<b>DSPIC30F2010-20E/MM</b>	<b>DSPH56362PV120</b>	<b>DSPIC30F2010-20I/MM</b>	<b>DSPIC30F2010-20E/SP</b>	<b>DSPIC30F1010-30I/SO</b>	<b>DSPIC30F2010-20I/SO</b>
Microchip Technology IC MCU 16BIT 12KB FLASH 28QFN	MOTOROLA	Microchip Technology IC MCU 16BIT 12KB FLASH 28QFN	Microchip Technology IC MCU 16BIT 12KB FLASH 28SPDIP	Microchip Technology IC MCU 16BIT 6KB FLASH 28SOIC	Microchip Technology IC MCU 16BIT 12KB FLASH 28SOIC
					
<b>dsPIC18F6585-I/PT</b>	<b>DSPH56009FJ81</b>	<b>DSPH56009FJ81</b>	<b>DSPIC30F2010-20I/SPG</b>	<b>DSPH VLSIFIN</b>	<b>DSPIC30F2011-20E/SO</b>
Micrel / Microchip Technology	MOT	AMD	Micrel / Microchip Technology	MIC	Microchip Technology IC MCU 16BIT 12KB FLASH 18SOIC

## 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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