



DSPIC30F2010-30I/SO

Manufacturer Part Number	DSPIC30F2010-30I/SO
Manufacturer	Microchip Technology
Allelco Part Number	32D-DSPIC30F2010-30I/SO
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 16BIT 12KB FLASH 28SOIC
Package	28-SOIC (0.295", 7.50mm Width)
Data sheet	16-bit Embedded Control Solutions.pdf DSPIC30F Flash Programming Specification.pdf 16-bit Embedded Control Solutions.pdf dsPIC30F2010 Datasheet.pdf
RoHS Status	ROHS3 Compliant



Get a Quote

DSPIC30F2010-30I/SO - Microchip Technology. New Original in Stock. Download Linear Technology DSPIC30F2010-30I/SO datasheet/specifications on AllelcoElec.com. Request a quote for DSPIC30F2010-30I/SO, please send us email: info@allelco.com

Specifications

DSPIC30F2010-30I/SO Tech Specifications
 DSPIC30F2010-30I/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 ~ 85°C (TA)
Supplier Device Package	28-SOIC	Number of I/O	20
Speed	30 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	I²C, 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 DSPIC30F2010-30I/SO

Product Attribute	NO PICTURE			
Part Number	DSPIC30F2010-30I/SO	DSPIC30F2011-30I/SO	DSPIC30F2010-30I/MM	DSPIC30F2010-20E/SP
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
Program Memory Size	12KB (4K x 24)	12KB (4K x 24)	12KB (4K x 24)	12KB (4K x 24)
Base Product Number	DSPIC30F2010	DSPIC30F2011	DSPIC30F2010	DSPIC30F2010
Data Converters	A/D 6x10b	A/D 8x12b	A/D 6x10b	A/D 6x10b
RAM Size	512 x 8	1K x 8	512 x 8	512 x 8
Package / Case	28-SOIC (0.295", 7.50mm Width)	18-SOIC (0.295", 7.50mm Width)	28-VQFN Exposed Pad	28-DIP (0.300", 7.62mm)
EEPROM Size	1K x 8	-	1K x 8	1K x 8
Core Size	16-Bit	16-Bit	16-Bit	16-Bit
Speed	30 MIPS	30 MIPS	30 MIPS	20 MIPS
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 125°C (TA)
Core Processor	dsPIC	dsPIC	dsPIC	dsPIC
Number of I/O	20	12	20	20
Connectivity	I²C, SPI, UART/USART	I²C, SPI, UART/USART	I²C, SPI, UART/USART	I²C, SPI, UART/USART
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
Voltage - Supply (Vcc/Vdd)	2.5V ~ 5.5V	2.5V ~ 5.5V	2.5V ~ 5.5V	2.5V ~ 5.5V
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Supplier Device Package	28-SOIC	18-SOIC	28-QFN-S (6x6)	28-SPDIP
Series	dsPIC™ 30F	dsPIC™ 30F	dsPIC™ 30F	dsPIC™ 30F
Package	Tube	Tube	Tube	Tube
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Through Hole
Oscillator Type	Internal	Internal	Internal	Internal

DSPIC30F2010-30I/SO Datasheet PDF

Download DSPIC30F2010-30I/SO pdf datasheets and Microchip Technology documentation for DSPIC30F2010-30I/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



MBB/Label Chgs 16/Nov/2018.pdf

HTML Datasheet



16-bit Embedded Control Solutions.pdf

PCN Assembly/Origin



SOIC-28L Revision 06/Feb/2014.pdf

PCN Design/Specification



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

Customers Also Interested in

Recommended Products



DSPIC30F2011-30I/SO

Microchip Technology
IC MCU 16BIT 12KB FLASH 18SOIC



DSPIC30F2010-30I/MM

Microchip Technology
IC MCU 16BIT 12KB FLASH 28QFN



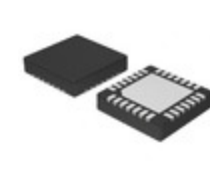
DSPIC30F2010-20E/SP

Microchip Technology
IC MCU 16BIT 12KB FLASH 28SPDIP



DSPIC30F2010-20E/SO

Microchip Technology
IC MCU 16BIT 12KB FLASH 28SOIC



DSPIC30F2010-20E/MM

Microchip Technology
IC MCU 16BIT 12KB FLASH 28QFN



DSPIC30F2011T-20E/SO

Microchip Technology
IC MCU 16BIT 12KB FLASH 18SOIC



DSPIC30F2011-I/P

Micrel / Microchip Technology



DSPIC30F2011-20E/SO

Microchip Technology
IC MCU 16BIT 12KB FLASH 18SOIC



DSPIC30F2010-20I/SO

Microchip Technology
IC MCU 16BIT 12KB FLASH 28SOIC



DSPIC30F2011T-20I/SO

Microchip Technology
IC MCU 16BIT 12KB FLASH 18SOIC



DSPIC30F2011-20I/SO

Microchip Technology
IC MCU 16BIT 12KB FLASH 18SOIC



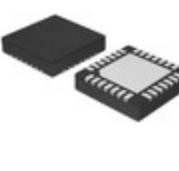
DSPIC30F2011-20I/P

Microchip Technology
IC MCU 16BIT 12KB FLASH 18DIP



DSPIC30F2011-I/SO

Micrel / Microchip Technology



DSPIC30F2010-20I/MM

Microchip Technology
IC MCU 16BIT 12KB FLASH 28QFN



DSPIC30F2010-20I/SP

Microchip Technology
IC MCU 16BIT 12KB FLASH 28SPDIP



DSPIC30F2010-20I/SPG

Micrel / Microchip Technology



DSPIC30F1010-30I/SO

Microchip Technology
IC MCU 16BIT 6KB FLASH 28SOIC



DSPIC30F2010-30I/SP

Microchip Technology
IC MCU 16BIT 12KB FLASH 28SPDIP

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

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Email

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Certifications & Memberships



View More

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