

Image may be representation.
See specifications for product details.



DSPIC30F2010-20I/MM

Manufacturer Part Number	DSPIC30F2010-20I/MM
Manufacturer	Microchip Technology
Allelco Part Number	32D-DSPIC30F2010-20I/MM
ECAD Model	Request Free CAD Models
Parts Description	IC MCU 16BIT 12KB FLASH 28QFN
Package	28-VQFN Exposed Pad
Data sheet	16-bit Embedded Control Solutions.pdf DSPIC30F Flash Programming Specification.pdf 16-bit Embedded Control Solutions.pdf dsPIC30F Section 35. Serial Peripheral Interface(S.pdf)
RoHs Status	ROHS3 Compliant

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DSPIC30F2010-20I/MM - Microchip Technology.New Original in Stock. Download Linear Technology DSPIC30F2010-20I/MM datasheet/specifications on AllelcoElec.com. Request a quote for DSPIC30F2010-20I/MM, please send us email: info@allelco.com

Specifications

DSPIC30F2010-20I/MM Tech Specifications
DSPIC30F2010-20I/MM - 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-QFN-S (6x6)	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	I²C, SPI, UART/USART
Package / Case	28-VQFN Exposed Pad	Base Product Number	DSPIC30F2010
Package	Tube		

Parts with Similar Specifications

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

Product Attribute				
Part Number	DSPIC30F2010-20I/MM	DSPIC30F2010-20E/SP	DSPIC30F1010-30I/SO	DSPIC30F2010-20I/SP
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
Oscillator Type	Internal	Internal	Internal	Internal
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, 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
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Data Converters	A/D 6x10b	A/D 6x10b	A/D 6x10b	A/D 6x10b
Program Memory Size	12KB (4K x 24)	12KB (4K x 24)	6KB (2K x 24)	12KB (4K x 24)
Package	Tube	Tube	Tube	Tube
Speed	20 MIPS	20 MIPS	30 MIPS	20 MIPS
Connectivity	I²C, SPI, UART/USART	I²C, SPI, UART/USART	I²C, IrDA, LINbus, SPI, UART/USART	I²C, SPI, UART/USART
Voltage - Supply (Vcc/Vdd)	2.5V ~ 5.5V	2.5V ~ 5.5V	3V ~ 5.5V	2.5V ~ 5.5V
Base Product Number	DSPIC30F2010	DSPIC30F2010	DSPIC30F1010	DSPIC30F2010
Supplier Device Package	28-QFN-S (6x6)	28-SPDIP	28-SOIC	28-SPDIP
Number of I/O	20	20	21	20
RAM Size	512 x 8	512 x 8	256 x 8	512 x 8
EEPROM Size	1K x 8	1K x 8	-	1K x 8
Package / Case	28-VQFN Exposed Pad	28-DIP (0.300", 7.62mm)	28-SOIC (0.295", 7.50mm Width)	28-DIP (0.300", 7.62mm)
Core Processor	dsPIC	dsPIC	dsPIC	dsPIC
Mounting Type	Surface Mount	Through Hole	Surface Mount	Through Hole
Core Size	16-Bit	16-Bit	16-Bit	16-Bit
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 125°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)

DSPIC30F2010-20I/MM Datasheet PDF

Download DSPIC30F2010-20I/MM pdf datasheets and Microchip Technology documentation for DSPIC30F2010-20I/MM - Microchip Technology.

Datasheets



[DSPIC30F Flash Programming Specification.pdf](#)




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



[dsPIC30F Section 35. Serial Peripheral Interface\(S.pdf\)](#)

PCN Packaging


 Packing Changes 10/Oct/2016.pdf


 MBB/Label Chgs 16/Nov/2018.pdf

HTML Datasheet


 16-bit Embedded Control Solutions.pdf

PCN Design/Specification

 CuPdAu wire 25/Nov/2016.pdf

























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

PCN Assembly/Origin

 Qualification Report 28/Jan/2014.pdf

Customers Also Interested in

Recommended Products

					
					
DSPIC30F2010-20E/SP	DSPIC30F1010-30I/SO	DSPIC30F2010-20I/SP	DSPIC30F2010-20E/MM	DSPIC30F2010-30I/SP	dsPIC18F6585-I/PT
Microchip Technology IC MCU 16BIT 12KB FLASH 28SPDIP	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 28SPDIP	Micrel / Microchip Technology
					
DSPIC30F2010-20I/SPG	DSPIC VLSIFIN	DSPIB VLSIFIN	DSPIC30F2010-20I/SO	DSPIC30F2010-30I/MM	DSPIC30F1010-20E/SO
Micrel / Microchip Technology	MIC	MIC	Microchip Technology IC MCU 16BIT 12KB FLASH 28SOIC	Microchip Technology IC MCU 16BIT 12KB FLASH 28QFN	Microchip Technology IC MCU 16BIT 6KB FLASH 28SOIC
					
DSPIS6009FJ81	DSPIC30F2011-20I/SO	DSPIC30F2010-30I/SO	DSPIC30F2011-20E/SO	DSPIC30F2011-20I/P	DSPIC30F2010-20E/SO
MOT	Microchip Technology IC MCU 16BIT 12KB FLASH 18SOIC	Microchip Technology IC MCU 16BIT 12KB FLASH 28SOIC	Microchip Technology IC MCU 16BIT 12KB FLASH 18SOIC	Microchip Technology IC MCU 16BIT 12KB FLASH 18DIP	Microchip Technology IC MCU 16BIT 12KB 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.



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 Cost-Saving Procurement
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Contact us if you have any questions.

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