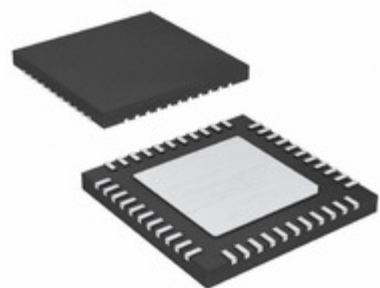


DSPIC30F4013T-20I/ML





Part Number:

DSPIC30F4013T-20I/ML

Manufacturer

Micrel / Microchip Technology

Description

IC MCU 16BIT 48KB FLASH 44QFN

Data sheet:

 [DSPIC30F Programmer Reference Errata Sheet](#)

 [dsPIC30F Ref Manual Errata](#)

 [DSPIC30F3014, 4013](#)

 [dsPIC30F3014,4013 Errata & Data Sheet Clarificatio](#)

 [16-bit Embedded Control Solutions](#)

 [DSPIC30F Section35 SPI](#)

 [DSPIC30F Flash Prog. Spec.](#)

RoHs Status:

Contains lead / RoHS non-compliant

Ship From:

Hong Kong

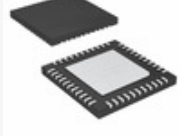
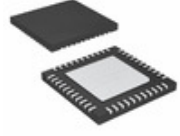
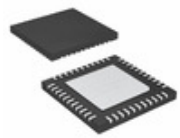
Shipment Way:

DHL/Fedex/TNT/UPS/EMS

Images are for reference only.  
See Product Specifications for product details.  
Buy DSPIC30F4013T-20I/ML with confidence from  
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Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                       |                                  |                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | DSPIC30F4013T-20I/ML                                                                  | Manufacturer                     | Micrel / Microchip Technology                                                                                                                                                                                                                                                                                                                                         |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | IC MCU 16BIT 48KB FLASH 44QFN                                                         | Lead Free Status / RoHS Status   | Contains lead / RoHS non-compliant                                                                                                                                                                                                                                                                                                                                    |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 4561 pcs                                                                              | Data sheet                       | <a href="#">DSPIC30F Programmer Reference Errata Sheet</a><br><a href="#">dsPIC30F Ref Manual Errata</a><br><a href="#">DSPIC30F3014, 4013</a><br><a href="#">dsPIC30F3014,4013 Errata &amp; Data Sheet Clarificatio</a><br><a href="#">16-bit Embedded Control Solutions</a><br><a href="#">DSPIC30F Section35 SPI</a><br><a href="#">DSPIC30F Flash Prog. Spec.</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <a href="#">Integrated Circuits (ICs)</a>                                             | Voltage - Supply (Vcc/Vdd)       | 2.5 V ~ 5.5 V                                                                                                                                                                                                                                                                                                                                                         |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 44-QFN (8x8)                                                                          | Speed                            | 20 MIPS                                                                                                                                                                                                                                                                                                                                                               |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | dsPIC™ 30F                                                                            | RAM Size                         | 2K x 8                                                                                                                                                                                                                                                                                                                                                                |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | FLASH                                                                                 | Program Memory Size              | 48KB (16K x 24)                                                                                                                                                                                                                                                                                                                                                       |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | AC'97, Brown-out Detect/Reset, I²S, POR, PWM, WDT                                     | Packaging                        | Tape & Reel (TR)                                                                                                                                                                                                                                                                                                                                                      |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 44-VQFN Exposed Pad                                                                   | Other Names                      | DSPIC30F4013T20IM                                                                                                                                                                                                                                                                                                                                                     |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Internal                                                                              | Operating Temperature            | -40°C ~ 85°C (TA)                                                                                                                                                                                                                                                                                                                                                     |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 30                                                                                    | Moisture Sensitivity Level (MSL) | 1 (Unlimited)                                                                                                                                                                                                                                                                                                                                                         |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Contains lead / RoHS non-compliant                                                    | EEPROM Size                      | 1K x 8                                                                                                                                                                                                                                                                                                                                                                |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | dsPIC dsPIC™ 30F Microcontroller IC 16-Bit 20 MIPS 48KB (16K x 24) FLASH 44-QFN (8x8) | Data Converters                  | A/D 13x12b                                                                                                                                                                                                                                                                                                                                                            |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 16-Bit                                                                                | Core Processor                   | dsPIC                                                                                                                                                                                                                                                                                                                                                                 |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CANbus, I²C, SPI, UART/USART                                                          | Base Part Number                 | DSPIC30F4013                                                                                                                                                                                                                                                                                                                                                          |
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| RELATED PRODUCTS                                                                   |                                                                                             |                                                              |                |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------|
|  | Part#: <a href="#">DSPIC30F4013T-30I/ML</a><br>Description: IC MCU 16BIT 48KB FLASH 44QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F4013T-20I/PT</a><br>Description: IC MCU 16BIT 48KB FLASH 44TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F5011T-20E/PT</a><br>Description: IC MCU 16BIT 66KB FLASH 64TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F5011T-20I/PT</a><br>Description: IC MCU 16BIT 66KB FLASH 64TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F4013-20I/P</a><br>Description: IC MCU 16BIT 48KB FLASH 40DIP     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F501130IP</a><br>Description: IC MCU 16BIT 66KB FLASH 64TQFP      | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F4013-20I/PT</a><br>Description: IC MCU 16BIT 48KB FLASH 44TQFP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F5011-30I/PT</a><br>Description: IC MCU 16BIT 66KB FLASH 64TQFP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F4013-30I/P</a><br>Description: IC MCU 16BIT 48KB FLASH 40DIP     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F4013-30I/PT</a><br>Description: IC MCU 16BIT 48KB FLASH 44TQFP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F5011-20I/PT</a><br>Description: IC MCU 16BIT 66KB FLASH 64TQFP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F4013T-20E/ML</a><br>Description: IC MCU 16BIT 48KB FLASH 44QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F4013-20I/ML</a><br>Description: IC MCU 16BIT 48KB FLASH 44QFN    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F4013-20E/PT</a><br>Description: IC MCU 16BIT 48KB FLASH 44TQFP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F4013-20E/P</a><br>Description: IC MCU 16BIT 48KB FLASH 40DIP     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F5011T-20E/PTG</a><br>Description: IC MCU 16BIT 66KB FLASH 64TQFP | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F4013-30I/ML</a><br>Description: IC MCU 16BIT 48KB FLASH 44QFN    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F4013T-20E/PT</a><br>Description: IC MCU 16BIT 48KB FLASH 44TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F5011-20E/PT</a><br>Description: IC MCU 16BIT 66KB FLASH 64TQFP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F4013T-30I/PT</a><br>Description: IC MCU 16BIT 48KB FLASH 44TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |

Related keywords for DSPIC30F4013T-20I/ML

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