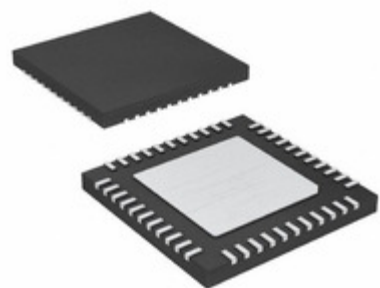


DSPIC30F4012T-20E/ML



Images are for reference only.  
See Product Specifications for product details.  
Buy DSPIC30F4012T-20E/ML with confidence from  
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Part Number: DSPIC30F4012T-20E/ML

Manufacturer: Micrel / Microchip Technology

Description: IC MCU 16BIT 48KB FLASH 44QFN

Data sheet:  DSPIC30F4011, 4012 Silicon Errata  
 dsPIC30F4011,4012 Errata & Data Sheet Clarificatio  
 dsPIC30F Ref Manual Errata  
 16-bit Embedded Control Solutions  
 DSPIC30F Section35 SPI  
 DSPIC30F Flash Prog. Spec.  
 DSPIC30F4011, 4012 Data Sheet

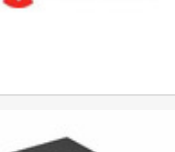
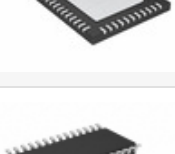
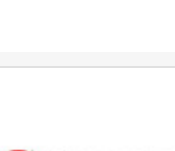
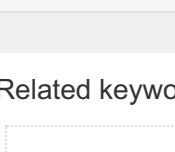
RoHs Status: Lead free / RoHS Compliant

Ship From: Hong Kong

Shipment Way: DHL/Fedex/TNT/UPS/EMS

Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                               |                                |                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                  | DSPIC30F4012T-20E/ML                                          | Manufacturer                   | Micrel / Microchip Technology                                                                                                                                                                                                                                                                                                                                           |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                  | IC MCU 16BIT 48KB FLASH 44QFN                                 | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                                                                                                                                                                                                                                                                                              |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                           | 4665 pcs                                                      | Data sheet                     | <a href="#">DSPIC30F4011, 4012 Silicon Errata</a><br><a href="#">dsPIC30F4011,4012 Errata &amp; Data Sheet Clarificatio</a><br><a href="#">dsPIC30F Ref Manual Errata</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><br><a href="#">DSPIC30F4011, 4012 Data Sheet</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                                                                                                                                                                                                                                                                                                                                                                                                                                  | Brown-out Detect/Reset, Motor Control PWM, QEI, POR, PWM, WDT | Packaging                      | Tape & Reel (TR)                                                                                                                                                                                                                                                                                                                                                        |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                               | 44-VQFN Exposed Pad                                           | Oscillator Type                | Internal                                                                                                                                                                                                                                                                                                                                                                |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                        | -40°C ~ 125°C (TA)                                            | Number of I/O                  | 20                                                                                                                                                                                                                                                                                                                                                                      |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                             | 1 (Unlimited)                                                 | Lead Free Status / RoHS Status | Lead free / RoHS 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 6x10b                                                     | Core Size                      | 16-Bit                                                                                                                                                                                                                                                                                                                                                                  |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                               | dsPIC                                                         | Connectivity                   | CANbus, I²C, SPI, UART/USART                                                                                                                                                                                                                                                                                                                                            |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                             | DSPIC30F4012                                                  |                                |                                                                                                                                                                                                                                                                                                                                                                         |
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| RELATED PRODUCTS                                                                   |                                                                                            |                                                              |                |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------|
|  | 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="#">DSPIC30F4012T-20I/SO</a><br>Description: IC MCU 16BIT 48KB FLASH 28SOIC | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F4012T-20E/SO</a><br>Description: IC MCU 16BIT 48KB FLASH 28SOIC | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F4012-20I/ML</a><br>Description: IC MCU 16BIT 48KB FLASH 44QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F4012-20I/SO</a><br>Description: IC MCU 16BIT 48KB FLASH 28SOIC  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F4012T-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/P</a><br>Description: IC MCU 16BIT 48KB FLASH 40DIP    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F4012-30I/ML</a><br>Description: IC MCU 16BIT 48KB FLASH 44QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F4012T-30I/SO</a><br>Description: IC MCU 16BIT 48KB FLASH 28SOIC | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F4011T-30I/PT</a><br>Description: IC MCU 16BIT 48KB FLASH 44TQFP | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F4012-20E/SP</a><br>Description: IC MCU 16BIT 48KB FLASH 28SDIP  | 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="#">DSPIC30F4012-30I/SO</a><br>Description: IC MCU 16BIT 48KB FLASH 28SOIC  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F4012-30I/SP</a><br>Description: IC MCU 16BIT 48KB FLASH 28SDIP  | 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="#">DSPIC30F4012T-30I/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/ML</a><br>Description: IC MCU 16BIT 48KB FLASH 44QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F4012-20I/SP</a><br>Description: IC MCU 16BIT 48KB FLASH 28SDIP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F4012-20E/ML</a><br>Description: IC MCU 16BIT 48KB FLASH 44QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F4012-20E/SO</a><br>Description: IC MCU 16BIT 48KB FLASH 28SOIC  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |

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