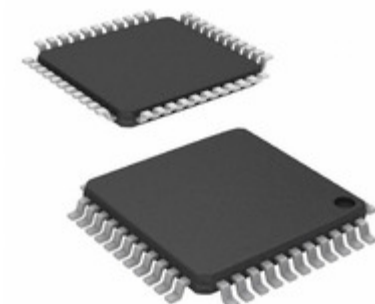


DSPIC30F4011T-20E/PT





Part Number: [DSPIC30F4011T-20E/PT](#)

Manufacturer: [Micrel / Microchip Technology](#)

Description: IC MCU 16BIT 48KB FLASH 44TQFP

Data sheet:  [DSPIC30F4011, 4012 Silicon Errata](#)  
 [dsPIC30F4011,4012 Errata & Data Sheet Clarificatio](#)  
 [DSPIC30F Programmer Reference Errata Sheet](#)  
 [dsPIC30F Ref Manual Errata](#)  
 [16-bit Embedded Control Solutions](#)  
 [DSPIC30F Section35 SPI](#)  
 [DSPIC30F4011, 4012 Data Sheet](#)

RoHs Status: Contains lead / RoHS non-compliant

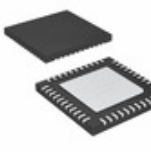
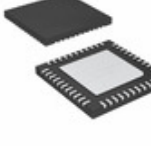
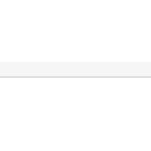
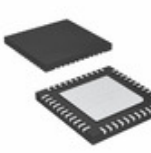
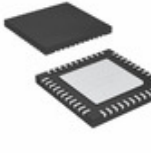
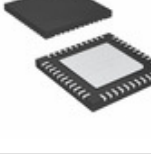
Ship From: Hong Kong

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

Images are for reference only.  
See Product Specifications for product details.  
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Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                          |                                  |                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | DSPIC30F4011T-20E/PT                                                                     | Manufacturer                     | <a href="#">Micrel / Microchip Technology</a>                                                                                                                                                                                                                                                                                                                              |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | IC MCU 16BIT 48KB FLASH 44TQFP                                                           | Lead Free Status / RoHS Status   | Contains lead / RoHS non-compliant                                                                                                                                                                                                                                                                                                                                         |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 4701 pcs                                                                                 | Data sheet                       | <a href="#">DSPIC30F4011, 4012 Silicon Errata</a><br><a href="#">dsPIC30F4011,4012 Errata &amp; Data Sheet</a><br><a href="#">DSPIC30F Programmer Reference Errata Sheet</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="#">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-TQFP (10x10)                                                                          | 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-TQFP                                                                                  | Other Names                      | DSPIC30F4011T20EP                                                                                                                                                                                                                                                                                                                                                          |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Internal                                                                                 | Operating Temperature            | -40°C ~ 125°C (TA)                                                                                                                                                                                                                                                                                                                                                         |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 30                                                                                       | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                                                                                                                                                                                                                                                                                              |
| 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-TQFP (10x10) | Data Converters                  | A/D 9x10b                                                                                                                                                                                                                                                                                                                                                                  |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 16-Bit                                                                                   | Core Processor                   | dsPIC                                                                                                                                                                                                                                                                                                                                                                      |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CANbus, PC, SPI, UART/USART                                                              | Base Part Number                 | DSPIC30F4011                                                                                                                                                                                                                                                                                                                                                               |
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| RELATED PRODUCTS                                                                   |                                                                                            |                                                              |                |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------|
|  | 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> |
|  | 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="#">DSPIC30F4011T-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="#">DSPIC30F4011-20E/P</a><br>Description: IC MCU 16BIT 48KB FLASH 40DIP    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F4011-20E/PT</a><br>Description: IC MCU 16BIT 48KB FLASH 44TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F4011-30I/P</a><br>Description: IC MCU 16BIT 48KB FLASH 40DIP    | 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="#">DSPIC30F4011-20I/P</a><br>Description: IC MCU 16BIT 48KB FLASH 40DIP    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F4011T-20I/ML</a><br>Description: IC MCU 16BIT 48KB FLASH 44QFN  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F4011T-20I/PT</a><br>Description: IC MCU 16BIT 48KB FLASH 44TQFP | 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="#">DSPIC30F4011-30I/PT</a><br>Description: IC MCU 16BIT 48KB FLASH 44TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
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RoHS

