

DSPIC30F6014AT-20E/PT



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**Part Number:** [DSPIC30F6014AT-20E/PT](#)

**Manufacturer:** [Micrel / Microchip Technology](#)

**Description:** IC MCU 16BIT 144KB FLASH 80TQFP

**Data sheet:**  [dsPIC30F6011A-14A Errata & Data Sheet Clarificatio](#)  
 [16-bit Embedded Control Solutions](#)  
 [DSPIC30F Section35 SPI](#)  
 [DSPIC30F Flash Prog. Spec.](#)  
 [DSPIC30F6011A - 14A](#)

**RoHs Status:** Lead free / RoHS Compliant

**Ship From:** Hong Kong

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                        |                                |                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                   | DSPIC30F6014AT-20E/PT                                  | Manufacturer                   | <a href="#">Micrel / Microchip Technology</a>                                                                                                                                                                                                              |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                   | IC MCU 16BIT 144KB FLASH 80TQFP                        | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                                                                                                                                                                                 |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                            | 5417 pcs                                               | Data sheet                     | <a href="#">dsPIC30F6011A-14A 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><br><a href="#">DSPIC30F6011A - 14A</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                      | <a href="#">Integrated Circuits (ICs)</a>              | Voltage - Supply (Vcc/Vdd)     | 2.5 V ~ 5.5 V                                                                                                                                                                                                                                              |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                       | 80-TQFP (12x12)                                        | Speed                          | 20 MIPS                                                                                                                                                                                                                                                    |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                        | dsPIC™ 30F                                             | RAM Size                       | 8K x 8                                                                                                                                                                                                                                                     |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                           | FLASH                                                  | Program Memory Size            | 144KB (48K x 24)                                                                                                                                                                                                                                           |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                   | AC'97, Brown-out Detect/Reset, I²S, LVD, POR, PWM, WDT | Packaging                      | Tape & Reel (TR)                                                                                                                                                                                                                                           |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                | 80-TQFP                                                | Oscillator Type                | Internal                                                                                                                                                                                                                                                   |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                         | -40°C ~ 125°C (TA)                                     | Number of I/O                  | 68                                                                                                                                                                                                                                                         |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                              | 4 (72 Hours)                                           | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                                                                                                                                                                                 |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                                   | 4K x 8                                                 | Detailed Description           | dsPIC dsPIC™ 30F Microcontroller IC 16-Bit 20 MIPS 144KB (48K x 24) FLASH 80-TQFP (12x12)                                                                                                                                                                  |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                               | A/D 16x12b                                             | Core Size                      | 16-Bit                                                                                                                                                                                                                                                     |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                | dsPIC                                                  | Connectivity                   | CANbus, I²C, SPI, UART/USART                                                                                                                                                                                                                               |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                              | DSPIC30F6014A                                          |                                |                                                                                                                                                                                                                                                            |
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| RELATED PRODUCTS                                                                   |                                                                                              |                                                              |                     |
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