



Micrel / Microchip Technology



DSPIC30F4012-20I/SP

|                     |                                                                                                                      |
|---------------------|----------------------------------------------------------------------------------------------------------------------|
| Part Number:        | DSPIC30F4012-20I/SP                                                                                                  |
| Manufacturer/Brand: | Micrel / Microchip Technology                                                                                        |
| Product description | IC MCU 16BIT 48KB FLASH 28SDIP                                                                                       |
|                     |  1.DSPIC30F4012-20I/SP.pdf          |
|                     |  2.DSPIC30F4012-20I/SP.pdf          |
|                     |  3.DSPIC30F4012-20I/SP.pdf          |
|                     |  4.DSPIC30F4012-20I/SP.pdf          |
| Datasheets:         |                                                                                                                      |
| RoHs Status         |  Contains lead / RoHS non-compliant |
| Stock Condition     | 19873 pcs stock                                                                                                      |
| Ship From           | Hong Kong                                                                                                            |
| Shipment Way        | DHL/Fedex/TNT/UPS/EMS                                                                                                |

REQUEST FOR QUOTATION

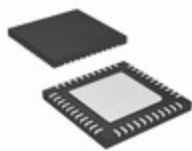
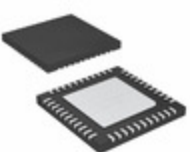
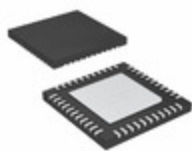
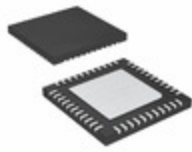
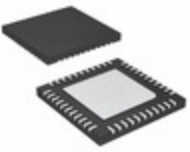
Specifications of DSPIC30F4012-20I/SP

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PART NUMBER                      | DSPIC30F4012-20I/SP                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| MANUFACTURER                     | Micrel / Microchip Technology                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| DESCRIPTION                      | IC MCU 16BIT 48KB FLASH 28SDIP                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| LEAD FREE STATUS / ROHS STATUS   | Contains lead / RoHS non-compliant                                                                                                                                                                                                                                                                                                                                                                                                                               |
| QUANTITY AVAILABLE               | 19873 pcs                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| DATA SHEET                       |  1.DSPIC30F4012-20I/SP.pdf<br> 2.DSPIC30F4012-20I/SP.pdf<br> 3.DSPIC30F4012-20I/SP.pdf<br> 4.DSPIC30F4012-20I/SP.pdf |
| VOLTAGE - SUPPLY (VCC/VDD)       | 2.5 V ~ 5.5 V                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| SUPPLIER DEVICE PACKAGE          | 28-SPDIP                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 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                        | Tube                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| PACKAGE / CASE                   | 28-DIP (0.300" , 7.62mm)                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| OTHER NAMES                      | DSPIC30F401220ISP                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| OSCILLATOR TYPE                  | Internal                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| OPERATING TEMPERATURE            | -40°C ~ 85°C (TA)                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| NUMBER OF I/O                    | 20                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 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 28-SPDIP                                                                                                                                                                                                                                                                                                                                                                                |
| DATA CONVERTERS                  | A/D 6x10b                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| CORE SIZE                        | 16-Bit                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| CORE PROCESSOR                   | dsPIC                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| CONNECTIVITY                     | CANbus, I²C, SPI, UART/USART                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| BASE PART NUMBER                 | DSPIC30F4012                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

Related Tags

|                                                   |                                          |                                                            |
|---------------------------------------------------|------------------------------------------|------------------------------------------------------------|
| Micrel / Microchip Technology DSPIC30F4012-20I/SP | DSPIC30F4012-20I/SP Distributor          | DSPIC30F4012-20I/SP Supplier                               |
| DSPIC30F4012-20I/SP Price                         | DSPIC30F4012-20I/SP Pictures             | DSPIC30F4012-20I/SP Image                                  |
| DSPIC30F4012-20I/SP PDF Datasheet                 | DSPIC30F4012-20I/SP Download Datasheet   | DSPIC30F4012-20I/SP Datasheet                              |
| DSPIC30F4012-20I/SP Stock                         | Buy DSPIC30F4012-20I/SP                  | Buy Micrel / Microchip Technology DSPIC30F4012-20I/SP      |
| Micrel / Microchip Technology DSPIC30F4012-20I/SP | Micrel / Microchip Technology Supplier   | Micrel / Microchip Technology Distributor                  |
| Micrel / Microchip Technology DSPIC30F4012-20I/SP | Microchip Technology DSPIC30F4012-20I/SP | Roving Networks / Microchip Technology DSPIC30F4012-20I/SP |

Related Products

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|  <div><b>DSPIC30F4012-20E/ML</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 48KB FLASH 44QFN<br/>In stock: 15315 pcs<br/><b>RFQ</b></div>  |  <div><b>DSPIC30F4012-20E/SP</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 48KB FLASH 28SDIP<br/>In stock: 16592 pcs<br/><b>RFQ</b></div>  |
|  <div><b>DSPIC30F4012T-20E/SO</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 48KB FLASH 28SOIC<br/>In stock: 6508 pcs<br/><b>RFQ</b></div> |  <div><b>DSPIC30F4012T-20E/ML</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 48KB FLASH 44QFN<br/>In stock: 3599 pcs<br/><b>RFQ</b></div>   |
|  <div><b>DSPIC30F4012-30I/ML</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 48KB FLASH 44QFN<br/>In stock: 13865 pcs<br/><b>RFQ</b></div>  |  <div><b>DSPIC30F4012-20E/SO</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 48KB FLASH 28SOIC<br/>In stock: 18549 pcs<br/><b>RFQ</b></div>  |
|  <div><b>DSPIC30F4012-20I/SO</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 48KB FLASH 28SOIC<br/>In stock: 20078 pcs<br/><b>RFQ</b></div> |  <div><b>DSPIC30F4011T-30I/PT</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 48KB FLASH 44TQFP<br/>In stock: 18368 pcs<br/><b>RFQ</b></div> |
|  <div><b>DSPIC30F4012T-20I/ML</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 48KB FLASH 44QFN<br/>In stock: 5055 pcs<br/><b>RFQ</b></div>  |  <div><b>DSPIC30F4012-20I/ML</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 48KB FLASH 44QFN<br/>In stock: 20952 pcs<br/><b>RFQ</b></div>   |
|  <div><b>DSPIC30F4012-30I/SO</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 48KB FLASH 28SOIC<br/>In stock: 16271 pcs<br/><b>RFQ</b></div> |  <div><b>DSPIC30F4012-30I/SP</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 48KB FLASH 28SDIP<br/>In stock: 14883 pcs<br/><b>RFQ</b></div>  |