

MICROCHIP

Micrel / Microchip Technology



### DSPIC30F5011-20E/PT

|                     |                                                                                                              |
|---------------------|--------------------------------------------------------------------------------------------------------------|
| Part Number:        | DSPIC30F5011-20E/PT                                                                                          |
| Manufacturer/Brand: | Micrel / Microchip Technology                                                                                |
| Product description | IC MCU 16BIT 66KB FLASH 64TQFP                                                                               |
|                     |  1.DSPIC30F5011-20E/PT.pdf  |
|                     |  2.DSPIC30F5011-20E/PT.pdf  |
|                     |  3.DSPIC30F5011-20E/PT.pdf  |
|                     |  4.DSPIC30F5011-20E/PT.pdf  |
|                     |  5.DSPIC30F5011-20E/PT.pdf  |
|                     |  6.DSPIC30F5011-20E/PT.pdf  |
| Datasheets:         |                                                                                                              |
| RoHs Status         |  Lead free / RoHS Compliant |
| Stock Condition     | 11251 pcs stock                                                                                              |
| Ship From           | Hong Kong                                                                                                    |
| Shipment Way        | DHL/Fedex/TNT/UPS/EMS                                                                                        |

REQUEST FOR QUOTATION

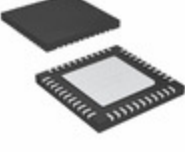
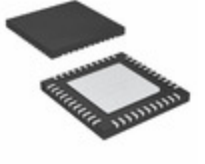
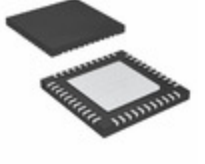
#### Specifications of DSPIC30F5011-20E/PT

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PART NUMBER                      | DSPIC30F5011-20E/PT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| MANUFACTURER                     | Micrel / Microchip Technology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| DESCRIPTION                      | IC MCU 16BIT 66KB FLASH 64TQFP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| LEAD FREE STATUS / ROHS STATUS   | Lead free / RoHS Compliant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| QUANTITY AVAILABLE               | 11251 pcs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| DATA SHEET                       |  1.DSPIC30F5011-20E/PT.pdf<br> 2.DSPIC30F5011-20E/PT.pdf<br> 3.DSPIC30F5011-20E/PT.pdf<br> 4.DSPIC30F5011-20E/PT.pdf<br> 5.DSPIC30F5011-20E/PT.pdf<br> 6.DSPIC30F5011-20E/PT.pdf |
| VOLTAGE - SUPPLY (VCC/VDD)       | 2.5 V ~ 5.5 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| SUPPLIER DEVICE PACKAGE          | 64-TQFP (10x10)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| SPEED                            | 20 MIPS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| SERIES                           | dsPIC™ 30F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| RAM SIZE                         | 4K x 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| PROGRAM MEMORY TYPE              | FLASH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| PROGRAM MEMORY SIZE              | 66KB (22K x 24)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| PERIPHERALS                      | AC'97, Brown-out Detect/Reset, I²S, LVD, POR, PWM, WDT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| PACKAGING                        | Tray                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| PACKAGE / CASE                   | 64-TQFP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| OTHER NAMES                      | DSPIC30F5011-20E/PTG<br>DSPIC30F501120EPT<br>DSPIC30F501120EPT-ND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| OSCILLATOR TYPE                  | Internal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| OPERATING TEMPERATURE            | -40°C ~ 125°C (TA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| NUMBER OF I/O                    | 52                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| MOISTURE SENSITIVITY LEVEL (MSL) | 3 (168 Hours)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 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 66KB (22K x 24) FLASH 64-TQFP (10x10)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| DATA CONVERTERS                  | A/D 16x12b                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| CORE SIZE                        | 16-Bit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| CORE PROCESSOR                   | dsPIC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| CONNECTIVITY                     | CANbus, I²C, SPI, UART/USART                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| BASE PART NUMBER                 | DSPIC30F5011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

#### Related Tags

|                                                   |                                          |                                                            |
|---------------------------------------------------|------------------------------------------|------------------------------------------------------------|
| Micrel / Microchip Technology DSPIC30F5011-20E/PT | DSPIC30F5011-20E/PT Distributor          | DSPIC30F5011-20E/PT Supplier                               |
| DSPIC30F5011-20E/PT Price                         | DSPIC30F5011-20E/PT Pictures             | DSPIC30F5011-20E/PT Image                                  |
| DSPIC30F5011-20E/PT PDF Datasheet                 | DSPIC30F5011-20E/PT Download Datasheet   | DSPIC30F5011-20E/PT Datasheet                              |
| DSPIC30F5011-20E/PT Stock                         | Buy DSPIC30F5011-20E/PT                  | Buy Micrel / Microchip Technology DSPIC30F5011-20E/PT      |
| Micrel / Microchip Technology DSPIC30F5011-20E/PT | Micrel / Microchip Technology Supplier   | Micrel / Microchip Technology Distributor                  |
| Micrel / Microchip Technology DSPIC30F5011-20E/PT | Microchip Technology DSPIC30F5011-20E/PT | Roving Networks / Microchip Technology DSPIC30F5011-20E/PT |

#### Related Products

|                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                             |
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|  <div><b>DSPIC30F5011-30I/PT</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 66KB FLASH 64TQFP<br/>In stock: 12295 pcs<br/>RFQ</div>  |  <div><b>DSPIC30F4013T-20I/PT</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 48KB FLASH 44TQFP<br/>In stock: 4412 pcs<br/>RFQ</div>  |
|  <div><b>DSPIC30F4013T-20E/PT</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 48KB FLASH 44TQFP<br/>In stock: 6902 pcs<br/>RFQ</div>  |  <div><b>DSPIC30F5011T-20E/PT</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 66KB FLASH 64TQFP<br/>In stock: 12768 pcs<br/>RFQ</div> |
|  <div><b>DSPIC30F4013T-20I/ML</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 48KB FLASH 44QFN<br/>In stock: 3515 pcs<br/>RFQ</div>   |  <div><b>DSPIC30F5011T-20I/PT</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 66KB FLASH 64TQFP<br/>In stock: 3635 pcs<br/>RFQ</div>  |
|  <div><b>DSPIC30F4013T-30I/PT</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 48KB FLASH 44TQFP<br/>In stock: 17502 pcs<br/>RFQ</div> |  <div><b>DSPIC30F5011-20I/PT</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 66KB FLASH 64TQFP<br/>In stock: 11537 pcs<br/>RFQ</div>  |
|  <div><b>DSPIC30F5011T-20E/PTG</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 66KB FLASH 64TQFP<br/>In stock: 5128 pcs<br/>RFQ</div> |  <div><b>DSPIC30F4013T-30I/ML</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 48KB FLASH 44QFN<br/>In stock: 18006 pcs<br/>RFQ</div>  |
|  <div><b>DSPIC30F501130IP</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 66KB FLASH 64TQFP<br/>In stock: 4941 pcs<br/>RFQ</div>      |  <div><b>DSPIC30F4013T-20E/ML</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 48KB FLASH 44QFN<br/>In stock: 4927 pcs<br/>RFQ</div>   |

