



Micrel / Microchip Technology



Image may be representation. See specifications for product details.

DSPIC30F5016-20I/PT

|                     |                                                                                                                      |
|---------------------|----------------------------------------------------------------------------------------------------------------------|
| Part Number:        | DSPIC30F5016-20I/PT                                                                                                  |
| Manufacturer/Brand: | Micrel / Microchip Technology                                                                                        |
| Product description | IC MCU 16BIT 66KB FLASH 80TQFP                                                                                       |
|                     |  1.DSPIC30F5016-20I/PT.pdf          |
|                     |  2.DSPIC30F5016-20I/PT.pdf          |
|                     |  3.DSPIC30F5016-20I/PT.pdf          |
|                     |  4.DSPIC30F5016-20I/PT.pdf          |
|                     |  5.DSPIC30F5016-20I/PT.pdf          |
|                     |  6.DSPIC30F5016-20I/PT.pdf          |
|                     |  7.DSPIC30F5016-20I/PT.pdf          |
| Datasheets:         |                                                                                                                      |
| RoHs Status         |  Contains lead / RoHS non-compliant |
| Stock Condition     | 3118 pcs stock                                                                                                       |
| Ship From           | Hong Kong                                                                                                            |
|                     | <div>REQUEST FOR QUOTATION</div> /Fedex/TNT/UPS/EMS                                                                  |

Specifications of DSPIC30F5016-20I/PT

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PART NUMBER                      | DSPIC30F5016-20I/PT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| MANUFACTURER                     | Micrel / Microchip Technology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| DESCRIPTION                      | IC MCU 16BIT 66KB FLASH 80TQFP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| LEAD FREE STATUS / ROHS STATUS   | Contains lead / RoHS non-compliant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| QUANTITY AVAILABLE               | 3118 pcs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| DATA SHEET                       |  1.DSPIC30F5016-20I/PT.pdf<br> 2.DSPIC30F5016-20I/PT.pdf<br> 3.DSPIC30F5016-20I/PT.pdf<br> 4.DSPIC30F5016-20I/PT.pdf<br> 5.DSPIC30F5016-20I/PT.pdf<br> 6.DSPIC30F5016-20I/PT.pdf<br> 7.DSPIC30F5016-20I/PT.pdf |
| VOLTAGE - SUPPLY (VCC/VDD)       | 2.5 V ~ 5.5 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| SUPPLIER DEVICE PACKAGE          | 80-TQFP (12x12)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| SPEED                            | 20 MIPS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| SERIES                           | dsPIC™ 30F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| RAM SIZE                         | 2K x 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| PROGRAM MEMORY TYPE              | FLASH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| PROGRAM MEMORY SIZE              | 66KB (22K x 24)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| PERIPHERALS                      | Brown-out Detect/Reset, Motor Control PWM, QEI, POR, PWM, WDT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| PACKAGING                        | Tray                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| PACKAGE / CASE                   | 80-TQFP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| OTHER NAMES                      | DSPIC30F501620IPT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| OSCILLATOR TYPE                  | Internal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| OPERATING TEMPERATURE            | -40°C ~ 85°C (TA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| NUMBER OF I/O                    | 68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 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 66KB (22K x 24) FLASH 80-TQFP (12x12)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| DATA CONVERTERS                  | A/D 16x10b                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| CORE SIZE                        | 16-Bit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| CORE PROCESSOR                   | dsPIC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| CONNECTIVITY                     | CANbus, I²C, SPI, UART/USART                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| BASE PART NUMBER                 | DSPIC30F5016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

Related Tags

|                                                   |                                          |                                                            |
|---------------------------------------------------|------------------------------------------|------------------------------------------------------------|
| Micrel / Microchip Technology DSPIC30F5016-20I/PT | DSPIC30F5016-20I/PT Distributor          | DSPIC30F5016-20I/PT Supplier                               |
| DSPIC30F5016-20I/PT Price                         | DSPIC30F5016-20I/PT Pictures             | DSPIC30F5016-20I/PT Image                                  |
| DSPIC30F5016-20I/PT PDF Datasheet                 | DSPIC30F5016-20I/PT Download Datasheet   | DSPIC30F5016-20I/PT Datasheet                              |
| DSPIC30F5016-20I/PT Stock                         | Buy DSPIC30F5016-20I/PT                  | Buy Micrel / Microchip Technology DSPIC30F5016-20I/PT      |
| Micrel / Microchip Technology DSPIC30F5016-20I/PT | Micrel / Microchip Technology Supplier   | Micrel / Microchip Technology Distributor                  |
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Related Products

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|  <div><b>DSPIC30F5016T-20E/PT</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 66KB FLASH 80TQFP<br/>In stock: 5485 pcs</div> <div>RFQ</div>  |  <div><b>DSPIC30F5015T-20I/PT</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 66KB FLASH 64TQFP<br/>In stock: 4008 pcs</div> <div>RFQ</div>  |
|  <div><b>DSPIC30F5015T-30I/PT</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 66KB FLASH 64TQFP<br/>In stock: 18076 pcs</div> <div>RFQ</div> |  <div><b>DSPIC30F5016T-20I/PT</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 66KB FLASH 80TQFP<br/>In stock: 2757 pcs</div> <div>RFQ</div>  |
|  <div><b>DSPIC30F5015-20I/PT</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 66KB FLASH 64TQFP<br/>In stock: 2746 pcs</div> <div>RFQ</div>   |  <div><b>DSPIC30F5016-30I/PT</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 66KB FLASH 80TQFP<br/>In stock: 13393 pcs</div> <div>RFQ</div>  |
|  <div><b>DSPIC30F5015-30I/PT</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 66KB FLASH 64TQFP<br/>In stock: 15007 pcs</div> <div>RFQ</div>  |  <div><b>DSPIC30F5016T-30I/PT</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 66KB FLASH 80TQFP<br/>In stock: 15534 pcs</div> <div>RFQ</div> |
|  <div><b>DSPIC30F6010-20E/PF</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 144KB FLASH 80TQFP<br/>In stock: 4330 pcs</div> <div>RFQ</div>  |  <div><b>DSPIC30F5015T-20E/PT</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 66KB FLASH 64TQFP<br/>In stock: 5974 pcs</div> <div>RFQ</div>  |
|  <div><b>DSPIC30F5016-20E/PT</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 66KB FLASH 80TQFP<br/>In stock: 12197 pcs</div> <div>RFQ</div>  |  <div><b>DSPIC30F6010-20I/PF</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 144KB FLASH 80TQFP<br/>In stock: 5628 pcs</div> <div>RFQ</div>  |

