

PIC16F871T-E/L



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**Part Number:** [PIC16F871T-E/L](#)

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

**Description:** IC MCU 8BIT 3.5KB FLASH 44PLCC

**Data sheet:**  [PIC16F870, 871](#)  
 [PIC16F870, 871 Rev A1 Silicon Errata](#)  
 [Tips N Tricks Guide](#)  
 [Timer1 Errata](#)  
 [PICmicro™ Reference Manual](#)  
 [MPLAB® ICE2000 Spec](#)

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

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                      |                                           |                                |                                                                                                                                                                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                            | PIC16F871T-E/L                            | Manufacturer                   | <a href="#">Micrel / Microchip Technology</a>                                                                                                                                                                                                       |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                            | IC MCU 8BIT 3.5KB FLASH 44PLCC            | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                                                                                                                                                                          |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                     | 4066 pcs                                  | Data sheet                     | <a href="#">PIC16F870, 871</a><br><a href="#">PIC16F870, 871 Rev A1 Silicon Errata</a><br><a href="#">Tips N Tricks Guide</a><br><a href="#">Timer1 Errata</a><br><a href="#">PICmicro™ Reference Manual</a><br><a href="#">MPLAB® ICE2000 Spec</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                               | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply (Vcc/Vdd)     | 4 V ~ 5.5 V                                                                                                                                                                                                                                         |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                | 44-PLCC (16.59x16.59)                     | Speed                          | 20MHz                                                                                                                                                                                                                                               |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                 | PIC® 16F                                  | RAM Size                       | 128 x 8                                                                                                                                                                                                                                             |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                    | FLASH                                     | Program Memory Size            | 3.5KB (2K x 14)                                                                                                                                                                                                                                     |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                            | Brown-out Detect/Reset, POR, PWM, WDT     | Packaging                      | Tape & Reel (TR)                                                                                                                                                                                                                                    |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                         | 44-LCC (J-Lead)                           | Oscillator Type                | External                                                                                                                                                                                                                                            |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                  | -40°C ~ 125°C (TA)                        | Number of I/O                  | 33                                                                                                                                                                                                                                                  |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                       | 3 (168 Hours)                             | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                                                                                                                                                                          |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                            | 64 x 8                                    | Detailed Description           | PIC PIC® 16F Microcontroller IC 8-Bit 20MHz 3.5KB (2K x 14) FLASH 44-PLCC (16.59x16.59)                                                                                                                                                             |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                        | A/D 8x10b                                 | Core Size                      | 8-Bit                                                                                                                                                                                                                                               |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                         | PIC                                       | Connectivity                   | UART/USART                                                                                                                                                                                                                                          |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                       | PIC16F871                                 |                                |                                                                                                                                                                                                                                                     |
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