

PIC16F877T-10E/PT



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Part Number: [PIC16F877T-10E/PT](#)

Manufacturer: [Micrel / Microchip Technology](#)

Description: IC MCU 8BIT 14KB FLASH 44TQFP

Data sheet:  [PIC16F87x Rev B5 Silicon Errata Sheet](#)  
 [PIC16F87x Datasheet](#)  
 [PIC16F87x Rev B Silicon Errata](#)  
 [Tips N Tricks Guide](#)  
 [Timer1 Errata](#)  
 [PICmicro™ Reference Manual](#)  
 [MSSP Module Silicon, Data Sheet Errata](#)  
 [MPLAB® ICE2000 Spec](#)  
 [PIC16F87x Rev B3 Silicon Errata](#)

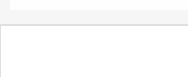
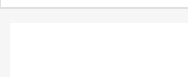
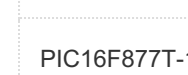
RoHs Status: Lead free / RoHS Compliant

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PIC16F877T-10E/PT                                                                | Manufacturer                     | <a href="#">Micrel / Microchip Technology</a>                                                                                                                                                                                                                                                                                                                                                                            |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | IC MCU 8BIT 14KB FLASH 44TQFP                                                    | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                                                                                                                                                                                                                                                                                                               |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5483 pcs                                                                         | Data sheet                       | <a href="#">PIC16F87x Rev B5 Silicon Errata Sheet</a><br><a href="#">PIC16F87x Datasheet</a><br><a href="#">PIC16F87x Rev B 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="#">MSSP Module Silicon, Data Sheet Errata</a><br><a href="#">MPLAB® ICE2000 Spec</a><br><a href="#">PIC16F87x Rev B3 Silicon Errata</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <a href="#">Integrated Circuits (ICs)</a>                                        | Voltage - Supply (Vcc/Vdd)       | 4 V ~ 5.5 V                                                                                                                                                                                                                                                                                                                                                                                                              |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 44-TQFP (10x10)                                                                  | Speed                            | 10MHz                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | PIC® 16F                                                                         | RAM Size                         | 368 x 8                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | FLASH                                                                            | Program Memory Size              | 14KB (8K x 14)                                                                                                                                                                                                                                                                                                                                                                                                           |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Brown-out Detect/Reset, POR, PWM, WDT                                            | Packaging                        | Tape & Reel (TR)                                                                                                                                                                                                                                                                                                                                                                                                         |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 44-TQFP                                                                          | Other Names                      | PIC16F877T10E/PT                                                                                                                                                                                                                                                                                                                                                                                                         |
| 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                      | 256 x 8                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | PIC PIC® 16F Microcontroller IC 8-Bit 10MHz 14KB (8K x 14) FLASH 44-TQFP (10x10) | Data Converters                  | A/D 8x10b                                                                                                                                                                                                                                                                                                                                                                                                                |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 8-Bit                                                                            | Core Processor                   | PIC                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | I²C, SPI, UART/USART                                                             | Base Part Number                 | PIC16F877                                                                                                                                                                                                                                                                                                                                                                                                                |
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| RELATED PRODUCTS                                                                   |                                                                                        |                                                              |                     |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------|---------------------|
|  | Part#: <a href="#">PIC16F877T-10E/L</a><br>Description: IC MCU 8BIT 14KB FLASH 44PLCC  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PIC16F87T-E/SS</a><br>Description: IC MCU 8BIT 7KB FLASH 20SSOP     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PIC16F877T-20/L</a><br>Description: IC MCU 8BIT 14KB FLASH 44PLCC   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PIC16F877T-20I/PQ</a><br>Description: IC MCU 8BIT 14KB FLASH 44MQFP | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PIC16F87T-E/SO</a><br>Description: IC MCU 8BIT 7KB FLASH 18SOIC     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PIC16F87T-E/ML</a><br>Description: IC MCU 8BIT 7KB FLASH 28QFN      | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PIC16F877T-20/PQ</a><br>Description: IC MCU 8BIT 14KB FLASH 44MQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PIC16F877T-20I/PT</a><br>Description: IC MCU 8BIT 14KB FLASH 44TQFP | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PIC16F877T-10E/PQ</a><br>Description: IC MCU 8BIT 14KB FLASH 44MQFP | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PIC16F877T-04/PQ</a><br>Description: IC MCU 8BIT 14KB FLASH 44MQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PIC16F877T-04I/PT</a><br>Description: IC MCU 8BIT 14KB FLASH 44TQFP | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PIC16F877T-04E/PT</a><br>Description: IC MCU 8BIT 14KB FLASH 44TQFP | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PIC16F877T-04E/L</a><br>Description: IC MCU 8BIT 14KB FLASH 44PLCC  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PIC16F877T-04I/PQ</a><br>Description: IC MCU 8BIT 14KB FLASH 44MQFP | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">PIC16F877T-04I/L</a><br>Description: IC MCU 8BIT 14KB FLASH 44PLCC  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">PIC16F877T-04I/PT</a><br>Description: IC MCU 8BIT 14KB FLASH 44TQFP | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PIC16F87T-I/ML</a><br>Description: IC MCU 8BIT 7KB FLASH 28QFN      | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <a href="#">RFQ</a> |

|                                                 |                                        |                                        |                         |
|-------------------------------------------------|----------------------------------------|----------------------------------------|-------------------------|
| Related keywords for PIC16F877T-10E/PT          |                                        |                                        |                         |
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