


MCU 8-bit PIC RISC 14KB Flash 2.5V/3.3V/5V Automotive 44-Pin TQFP Tray



Images are for reference only

Manufacturer:	Microchip Technology, Inc
Package/Case:	QFP
Product Type:	Embedded Processors & Controllers
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active

[Inquiry](#)

General Description

This powerful yet easy-to-program (only 35 single word instructions) CMOS FLASH-based 8-bit microcontroller packs Microchip's powerful PIC® architecture into an 40- or 44-pin package. The PIC16F887 features 256 bytes of EEPROM data memory, self programming, an ICD, 2 Comparators, 14 channels of 10-bit Analog-to-Digital (A/D) converter, 1 capture/compare/PWM and 1 Enhanced capture/compare/PWM functions, a synchronous serial port that can be configured as either 3-wire Serial Peripheral Interface (SPI™) or the 2-wire Inter-Integrated Circuit (I²C™) bus and an Enhanced Universal Asynchronous Receiver Transmitter (EUSART). All of these features make it ideal for more advanced level A/D applications in automotive, industrial, appliances or consumer applications.

Key Features

35 (14-bit wide) easy instructions to learn

8 level hardware stack

1 (9-bit) file select register

Hardware interrupt handling

32kHz to 8MHz internal oscillator

256bytes of EEPROM data memory

Brown-out reset (BOR)

Power on reset (POR)

Internal voltage reference (Bandgap)

Two 8-bit digital timers

One 16-bit digital timer

1x Capture/Compare/PWM (CCP)

1x Enhanced Capture/Compare/PWM (ECCP)

In-Circuit Serial Programming™ (ICSP™)

Recommended For You

PIC16F84A-20/P

Microchip Technology, Inc
DIP18

PIC16F54-I/P

Microchip Technology, Inc
DIP

PIC18F2320-I/SP

Microchip Technology, Inc
DIP28

PIC18F2685-I/SP

Microchip Technology, Inc
SPDIP-28

PIC16F767-I/SO

Microchip Technology, Inc
SOP

PIC16F630-I/SL

Microchip Technology, Inc
SOP14

PIC16F15345-I/SO

Microchip Technology, Inc
SOP20

PIC16F84-04/P

Microchip Technology, Inc
DIP18

PIC18F4320-I/PT

Microchip Technology, Inc
QFP

PIC16C622A-04/P

Microchip Technology, Inc
DIP

PIC16F84A-04/P

Microchip Technology, Inc
DIP18

PIC18F2480-I/SP

Microchip Technology, Inc
DIP

PIC16F628-04/P

Microchip Technology, Inc
DIP

PIC16F877-20/L

Microchip Technology, Inc
PLCC44

PIC16F676-I/P

Microchip Technology, Inc
DIP-14