PIC18 Explorer Board

Part Number: DM183032

This low-cost demo board is for evaluation of our PIC18 MCU families. The PIC18 is our highest performance 8-bit architecture and has three different families: standard PIC18, PIC18 J-series and PIC18 K-series. This single development board supports dozens of the general purpose PIC18 families using various processor Plug-In Modules (PIMs). PICtail daughter boards enable many different accessory boards to connect to the PIC18 Explorer board for a flexible and complete development environment. This board is the ideal complement to the MPLAB® PICkit 3 or ICD 3 debugger and programmer for a full-featured, economical, PIC18 development environment.

PIC18 Explorer Board	Stand alone board requires standard 9-12V power supply, available separately	DM183032
PIC18 Development Kit	Includes PIC18 Explorer Board, PICkit 3 Debugger/Programmer, USB cable, 9V power supply with a bundled discount	DV164136

PIC18 Explorer Board Features

● Multiple PIC18 processors, both a PIC18F8722 on board (128KB Flash, 80 pins, superset of traditional PIC18 family), and a PIC18F87J11 Plug-In Module (128KB Flash, 80-pins, superset of J-series, PIM adjusts to accommodate 3V device). A switch selects the desired processor.
● Supports many other PIC18 devices with Plug-In Modules, supporting 28 to 80-pin PIC18 devices
● PICtail ™ daughter board connector for connection to standard expansion boards such as Ethernet, speech playback, and the many different sensors
● Expansion connector accesses full device pin-out and breadboard prototype area
● Convenient connection for MPLAB PICkit 3, ICD 3 or REAL ICE for in-circuit programming and debugging
● Alpha-numeric LCD display
● USB interface for USB to RS-232 communication
● 25LC256 SPI EEPROM
● Crystal oscillator
● Potentiometer (connected to 10-bit A/D, analog input channel)
● Analog output temperature sensor
● LEDs
● RS-232 port
● Power supply connector and programmable voltage regulator, capable of operation from 2.0V to 5.5V
● Demo software including temperature sensor demo included (illustrates Microchip's analog temperature sensor MPC9701A) and 32 kHz crystal for Real Time Clock demonstration