



Microchip - DM180021 - PIC18 Starter Kit

Product Overview:

The PIC18 Starter Kit contains everything needed to experience the high performance and versatility of the PIC18F microcontroller family. It includes an on-board debugger/programming capability as well as USB communication, a capacitive touch pad, potentiometer, acceleration sensor, MicroSD™ memory card, and an OLED display. The board can function as a USB mouse, joystick or mass storage device (thumb drive) all using the on-board capacitive touch sense pads.



Kit Content:

- USB cable from the PC to the demo board.
- OLED display and touch pads.
- Demo software included with the kit enables it to:
 - Read from the memory card (MSD)
 - Function as a USB Mouse or Joystick (HID)
 - Function as a simple COM port (CDC)
- A CD is included with the MPLAB IDE, Free C Compiler, Demo code, and User's Guide

Key Features:

- Functions as a USB mouse, joystick or mass storage device all using the on-board capacitive touch sense pads
- Includes a MicroSD memory card, potentiometer, acceleration sensor, and OLED display
- On-board debugger & programming
- Completely USB-powered
- Demonstrates PIC18 Family:
 - PIC18F46J50 8-bit MCU
 - 64KB Flash & 4KB RAM
 - nanoWatt XLP™ for extreme low power
 - mTouch capacitive touch sensing

- USB communication
- Microchip's FREE USB bootloader and software framework

Ordering Information:

Products:

Part Number	Manufacturer	Farnell P/N	Newark P/N
DM180021	Microchip	1737240	25R4542

Associated Products:

Part Number	Manufacturer	Description	Support Device	Farnell P/N	Newark P/N
TC1108-3.3VDB	Microchip	IC CMOS LDO, 3.3V, 300MA	Voltage Regulator CMOS Type	1557422	96K4006
ASMT-RR45-AQ902	Avago Technologies	LED, SMD, 0603, RED	Standard LED / Lamp Size:1.6mm x 0.8mm	1652080	42M4124
NKS7-120-20-E	Saronix	CRYSTAL, 12MHZ		1210004	97K6524
MCP9701A	Microchip	Temperature Sensor IC		1627203	88K5692
PIC18F46J50-I/PT	Microchip	MCU, 8BIT, 64K FLASH,NANOWA TT,44TQFP	PIC18F46J50	1706312	98M1834

Similar Products:

Part Number	Manufacturer	Description	Support Device	Farnell P/N	Newark P/N
MA180024	Microchip	DEMO, PIC18F46J50 FS USB BOARD	PIC18F46J50	1706356	07R7710
DM183022	Microchip	KIT, PICDEM HPC EXPLORER BOARD	PIC18F8722	1770583	04M6007

MA180023	Microchip	PIC18F46J11 PIM Plug-in Modules	Stand-alone or w/ HPC(DM183022) or PIC18(DM183032)	1706355	14R8813
DM183032	Microchip	KIT, DEMO BOARD, PICDEM PIC18	PIC18	1615691	07P9073
DV164035	Microchip	DV164035 - KIT, EVALUATION, ICD3	PICxx MCUs/ PICxx DSCs	1664878	19P0223
DV164131	Microchip	PICKit 3 Debug Express	Flash based PIC MCUs	1686530	50P9695
DV164126	Microchip	DEV KIT, USB, W/ PICKIT 2	PIC18F14K50, PIC18F13K50	1687477	45P4716
PIC18F13K50-I/P	Microchip	MCU, 8-BIT, 8K FLASH, USB, DIP20	PIC18F13K50	1697073	77M3098
AC244023	Microchip	ADAPTER, PROC EXT PAK, PIC18F1XK50	PIC18F13K50, PIC18F14K50	1699834	04R7529
PG164120	Microchip	PROGRAMMER, PICKIT 2	PICKIT	9847170	51M8937
AC164131	Microchip	USB PICtail Plus Daughter Board	Explorer 16	1558603	88M9288
DM320001	Microchip	STARTER KIT, PIC32	Microchip 32-bit	1523317	71M0037

Document List:

Datasheets:

Part Number	Description	Size
PIC18F46J50	PIC18F46J50 Family Data Sheet	8.31MB
PIC18F4XXXX	PIC18F2XJXX/4XJXX Family Programming Specification	583KB
PIC18F13K50/PIC18LF1XK50	PIC18F1XK50/PIC18LF1XK50 Flash Memory Programming	501KB
PIC18F24XX	PIC18F2450/4450 Data Sheet	5.54MB

Application Notes:

File Name	Size
AN1066 - MiWi Wireless Networking Protocol Stack	634KB

AN1095 - AN1095, Emulating Data EEPROM for PIC18 and PIC24 MCUs and dsPIC DSCs	368KB
AN1204 - Microchip MiWi P2P Wireless Protocol	370KB
AN1229 - Class B Safety Software Library for PIC MCUs and dsPIC DSCs	398KB
AN1267 - nanoWatt & nanoWatt XLP(TM) Technologies: An Introduction to Microchip's Low Power devices	259KB
AN1140 - USB Embedded Host Stack	467KB
AN1189 - Implementing a Mass Storage Device Using the Microchip USB Device Firmware Framework	168KB
AN1212 - Using USB Keyboard with an Embedded Host	485KB
AN950 - Power Management for PIC18 USB Microcontrollers with nanoWatt Technology	259KB

Hardware & Software:

File Name	Size
DEE Emulation 8-bit v1.1.1	312KB
DEE Emulation 16-bit v1.1.2	324KB
Low Pin-Count USB Development Kit Lab Folders	155KB
Low Pin-Count USB Development Kit Project Labs	155KB
AN1229 Source Code	342KB
PIC32 USB Device/Embedded Host Software Stack v1.04	4924KB

Others Resources:

File Name	Size
8-bit Microcontroller Product Selector Guide	2637KB
Solutions for Medical Applications	1.52MB
Microchip Application Libraries	76921KB