µP-2

MCS-51 / AVR / PIC MCU Experimental Board

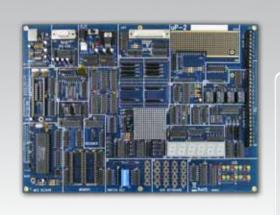The best platform for learning MCU

Introduction

The uP-2 is included MCS-51, AVR and PIC which are the top 3 popular MCUs on the market. The platform is flexible design. Each part of the experiments has their own circuit block. You can combine the experimental example or designated topic circuit for your own subject. The uP-2 is the best platform for learning MCU.

Features

- Applied subjects are included MCS-5X/AVR/PIC16F8XX.
- Available 20 or 40 pin MUC.
- Compatible with many brands of emulators.
- System is designed on stand-alone CPU, interface separately.
- Provide 26 circuit units.
- All of the circuits are able to combined with cable wires by users.
- No need to Solder, saving time.
- 385 holes on the board which provide users for extended application or subjective experiments.
- The Power is provided two kinds of input, 9V adaptor or DC 9V.

Circuit Unit

- 20 & 40 pin MCS-51/AVR IC socket
- 20 & 40 pin PIC16F8XX IC socket
- USB
- RS-232
- Printer port
- EPROM/FLASH socket for program extension, up to 512K x 8bits
- SRAM socket for program extension, up to 512K x 8bits
- IO decoder
- Red/yellow/green LED
- 6 digits 7 segment display
- Stand-alone push button x 4
- DIP switches
- 16x16 two colors dot matrix LED
- System power supply
- A/D ADC0804 IC
- D/A AD7528 IC
- LCD socket extension.
- OP LM324 IC
- Relay x 4
- Step Motor driver ULN2003

Standard Accessories

Main Board.....................x1
8 Pin Cable.....................x4
4 Pin Cable.....................x4
2 Pin Cable.....................x8
USB Cable.....................x1
CD (Included user's manual, Boot codes, examples)...x1
AC110V/DC9V/500mA Power Adaptor................x1
W78E052DDG IC............x1

Specification

Operating System	Windows 8 32/64bits, Windows 7 32/64bits, Windows VISTA 32/64bits, Windows XP 32/64bits
Communication	Printer / RS-232 / USB Port
Power	9V DC Adaptor / 9V DC Extend Power Pinin
Dimension	316 x 222 x 210mm
Weight	700g

Experimental Contents

- LED
- Push button
- Single and dual Traffic light control
- Neon lamp
- Extended program memory
- Extended data memory
- Extended EEPROM recode data
- 16x16 double color dot matrix display, Character/graph
- 6 digits dynamic 7 segment display LCD circuit (LCD is option)
- Step motor driver circuit (need connect to external motor)
- Relay control 4x4 matrix keypad scan circuit
- Press button circuit
- Touch switch read and set
- Timer
- Password key
- Electronic piano

- Counter
- A/D and D/A conversion
- 8255 I/O extension
- Multi I/O decode
- Serial Peripheral Interface
- Printer interface
- USB interface
- USB transfer to RS-232
- OPTO input & output

- 82C55 IO extension
- Buzzer output
- EEPROM 93C46 & 24C02
- Matrix keypad circuit x 16(4x4)
- Photo
- 385 hole universal board

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Optional Accessories

3-in-1 Module Kit

3-in-1 module board
• Using this board for extending motor module, fan module and sensor module.

Motor module
• For step motor control experiment

Fan module
• For fan speed control experiment

Sensor Module
• For heating control and temperature induction experiment

WICE-52 MCS-51 On-Board-Debug

• The WICE-52 adopts OCD(On-Chip-Debug) technology from company Megawin. It is compatible with Keil's 8051 IDE debug simulation interface and supports "Single Step", "Full Speed", "Pause", and "Reset" functions of on-chip debugging.
  It is compatible with Keil's µVision2 or µVision3. (Note: Keil 8051 IDE software is not included in the product.)

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