ET-BASE Z51F6412 is the latest Board Microcontroller in the series of MCS51 from ZILOG, it improves specifications but it is cheap price; moreover, it changes the operation of I/O more special. For example, GPIO PORT is used to be PIN PULL-UP, PIN DEBOUNCE, PIN CHANGE INTERRUPT, USART, SPI, I2C, ADC, PWM, BUZZER CONTROL, increase speed to 2 CLOCK per 1 command, increase integer for calculation to 32BIT, A TO D 12 BIT, 4CH UART.

Specifications of ET-BASE Z51F6412
- Use MCU in the series of Z8051 (MCS51 BY ZILOG) No.Z51F6412, 80 PIN LQFP to be MCU on board. It runs at the high sped of 16MHz (2 CLOCK/ 1 Command).
- 64 KBYTE FLASH PROGRAM/ 3 KBYTE XRAM/ 256 BYTE IRAM
- INTERNAL OSC 16 MHz (+/-2%) divisor 2, 4, 8, 16 from program
- 66 BIT GPIO PORT can be programmed to be various I/O such as 15 CH 12 BIT ADC, 4 CH UART, 2 CH SPI, 1 CH 12C and etc
- Has Circuit CACULATOR to multiply, divide 32BIT integer
- WATCH TIMER and WATCHDOG TIMER
- PROGRAMMABLE BROWN-OUT DETECT (1.6V,2.5V,3.6V and 4.2V)
- Has circuit to support CRYSTAL Frequency 10MHz and 32MHz (OPTION)
- Support IN-SYSTEM PROGRAMMING (ISP) and DEBUGGER through 10 PIN HEADER by ET-Z8051 OCD (OPTION *850.-)
- 64 BIT GPIO PORT is 8 of 10 PIN HEADER to apply to A/D, I2C, SPI, UART, INPUT, OUTPUT
- Has Port RS232 with LINE DRIVER 2-CH 4 PIN ETT
- Has BUZZER wit JUMPER, 1 Push Button SW to test
- 1 LED to test, 1 SW RESET
- 10 PIN HEADER OCD-PORT under the standard of ZILOG, it interfaces PROGRAM and DEBUGGER by Z8051 ON-CHIP DEBUGGER or ET-Z8051 OCD
- Use +5VDC POWER SUPPLY for Board with REGULATE 3.3V/1A ON BOARD. There is JUMPER to choose level of Power Supply for MCU either to be 5V or 3.3V to interface with Board I/O easily, Connector POWER 2 PIN (it is compatible with ET-SWITCHING ADAPTER 5V 1.2A TYPE B (A-AP-A-00079))
- PCB size is 8.23 x 6.20 cm.
- ET-BASE Z51F6412 consists of ...
1. Board ET-BASE Z51F6412
2. CD-ROM User’s Manual and Program

Interface with computer PC through PORT USB, it is compatible with the Operating System of WINDOWS XP, VISTA 32/64 BIT, WINDOWS-7 32/64 BIT
- Connector 10 PIN IDE to interface with TARGET BOARD of MCU
- Support the operation with MCU in the series of Z8051 from ZILOG
- Support HEX File and MAP/SYMBOL FILE
- Can IN-SYSTEM PROGRAM(ISP) and DEBUGGER
- Can access CODE in MCU, DEBUG by displaying the value in the format of variable
- Show CODE and DISASSEMBLER
- Setup PC and BREAK POINT, RUN, STEP, AUTO STEP...
- AUTO DETECT MCU number and adjust Parameters by its own self
- Support the operation with MCU throughout the standard range of voltage 2V-5.5V
- Use Power Supply from PORT USB of PC

ET-Z8051 OCD consists of ...
1. Board ET-Z8051 OCD with Cable 10PIN
2. Cable USB TYPE A/B
3. CD-ROM User’s Manual and Program