43559 8051 Universal Development Platform is a full featured development system for 8051 microcontrollers. It is an ideal platform to implement and test the designs both for the beginners and the experts.

The 43559 comes with 20 Keys Hex keypad with 16x2 LCD for user programming mode. 43559 also supports PC based programming for large size program code. Using Nvis 5001A, a range of projects in various domains like telecommunication, robotics, consumer electronics, etc can be made.

43559 gives designers a quick start to develop code on controller with on board programmer and on board breadboard facility. The flexibility of connectors allows user to make external connections. On board breadboard allows them to make their own circuits and perform any experiment they desire.

Features

1. Core 8051 MCU clocked at 11.0592 MHz.
2. User can enter op code using on board 20 keys Hex keypad
3. For large program user can use on board PC based USB Programmer.
4. On board LCD for both programming mode and run mode.
5. Every pin is marked in order to make work easier
6. User can write assembly codes in PC software and run on 43559
7. PC Programmer mode also supports other devices like AT89C51/52/55, AT89S51/52/53 , AT89S8252
8. Input / Output & test points provided on board
9. Self contained development board with on board DC Power Supply plug in modules and prototyping area
10. On board breadboard for self circuit design
11. CD with sample project code in assembly and C, Programmer software & useful documents

Object

01. Decimal Addition of two numbers.
02. Hexadecimal Addition of two numbers.
03. Hexadecimal Multiplication of two numbers.
04. Hexadecimal Division of two numbers.
05. Hexadecimal Subtraction of two numbers.
06. Logical Operation AND, OR, XOR, NOR, NAND, and NOT.
07. Factorial calculation
08. Timer/Interrupt example.
09. Square wave generation on port
10. Ascending and descending order.
11. Fibonacci series
12. LCM calculation
13. HCF calculation
14. Multiplication by shifting
15. Multiplication by adding
16. Square root calculation of a byte.
17. Square calculation of a byte
18. 8 bit Array addition
19. Flashing "Nvis 5001A" on LCD.
20. Split bytes into two nibbles and display on LCD
21. Program to find even or odd of a byte
22. Interface various external MCXX series modules.
    (Ask for quote for additional programs if required)

Note: Specifications are subject to change.

Technical Specifications

Communication	:	USB
Programming mode	:	PC mode, Hex keypad mode
MCU	:	8051 core
Crystal Frequency	:	11.0592 MHz
DC Power Supplies	:	+12V, -12V, +5V & - 5V
Programmer	:	Ready to run programmer will program 8051 devices
Interconnections	:	2 mm patch cords and FRC cables
Dimensions (mm)	:	W 326 x D 252 x H 52
Power Supply	:	110V - 260V AC, 50/60Hz
Weight	:	1.5Kg (approximately)
0 Operating Conditions	:	0-40 C, 85% RH
Included Accessories	:	USB cable, Mains cord, Patch cords, 20 Pin FRC cable, Power Supply

Other Microcontroller support PC programmer modes

AT89C51/52/55, AT89S51/52/53 , AT89S8252

Suggested modules (optional)

TCM01-Input interface module
TCM02 -ADC- DAC interface module
TCM03 - Computer interface module
TCM04 - Display module
TCM05 - Motor drive module
TCM06 - Elevator control module
TCM07 - TTL IO interface module
TCM08 - Real time clock module
TCM09- Graphical display module
TCM10 - Display and switches module
TCM11- Multi interface module
TCM12 - Infrared modules
TCM13- ADC-DAC with I2C
TCM15 - Sensor module
TCM16- PWM based voltage regulator
TCM17- Vehicle motion detector module

Embedded learning software Simtel.

Software window

Write assembly codes in PC software and run on 43559

Burn .Hex file of Assembly or C codes

Embedded learning software Simtel (optional)

Note: Specifications are subject to change.