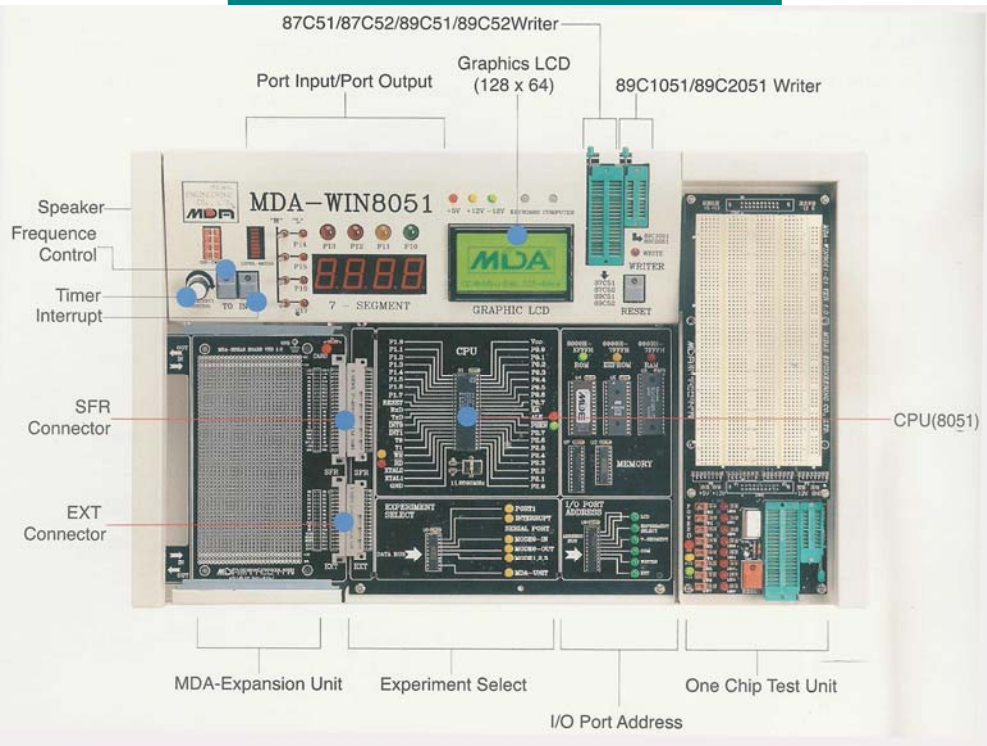
Windows Emulation 8051(8Bit) TRAINER

MDA-Win51



FEATURE

1. STUDIO-51 Program
   - Applications can be developed and run entirely on the board itself.
   - Display the machine language and assemble mnemonic code
   - Modify the register, program, and data memory.
   - Write One-Chip CPU (87C52, 87C51, 89C52, 89C51, 89C2051 and 89C1051)
   - Assemble and C-Compile
   - Display the address, and data
   - Indicate an error line
   - Go, Stop, and Trace function
   - Display input and output data
   - IAR, and KEIL C-compiler
2. Program start address : 0000H (Reset vector)
3. Support 8051(80c51), 8031, 8751, 89C51, 8052, 89C52, 80C320, and 80C550
4. Support 4 serial ports. (COM1, COM2, KEY1, KEY2)
5. Various I/O and interrupt experiments
6. 7pcs Standard Extended units.(D/A converter, A/D converter, DC motor, Step motor, Dot Matrix, Relay and Bread board) and 20 extra optional expansion modules available
7. Application board experiments using the SFR, EXT connector
8. Graphic LCD display (128X64 dots)
9. Display CPU status on LED
10. 87C52, 87C51, 89C52, 89C51, 89C2051 and 89C1051 Read, Write, Verify, and Erase.
11. Metal case
12. Support the program examples
13. +5V, +12V, -12V SMPS(Free Voltage) Power

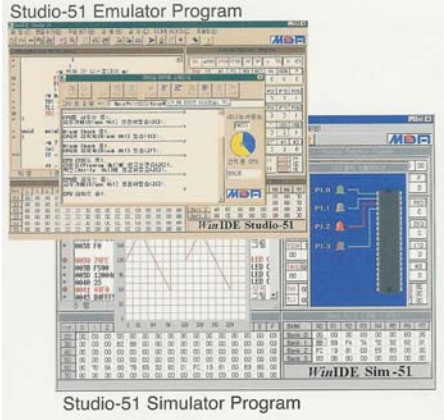
■ Technical Specification

PC Operation Program	STUDIO-51(Windows platform)
Micro-Controller	8051(80C51) or 8031/8751/89C51/8052/89C52/80C320/80C550
Main RAM	128KBytes (681000 × 1)
Monitor ROM	32KBytes (27256 × 1)
Back up ROM	32KBytes (28C256 × 1)
Decoder PLD	22V10 × 1
Display Unit	Graphic LCD(128 × 64 Dots), 7-Segments
I/O Experiments	Toggle switch, Push switch, LED
Serial port Experiments	DIP switch, Level meter
Frequency Experiments	NE555 and volume resister 50 kΩ
Serial port	RS-232C × 4port
Software	MA51 assembler, C-Compiler(for Education), STUDIO-51
Extended Connector	44 pins, 32 pins
Extended Unit	* A/D Converter Unit * D/A Converter Unit * D.C Motor Unit * Step Motor Unit * Dot Matrix Unit * Relay Unit * Bread Board Unit (Including main unit in standard)
ONE-CHIP	40pins TEXTOOL × 1ea
ONE-CHIP TEST Unit	- Bread Board - Reset switch - Textool - OSC(11.0592MHz) - LED - Toggle and Push Switch
Power	Input : A.C 85~264V, Output : D.C +5V(3A), +12V(1A), -12V(500mA)
Case(Main) Size	81(H) × 300(D) × 476(W) mm

■ Accessories

- WinIDE Studio-51 Software CD ☞ 1Set
- RS-232C Cable(9-pins) ☞ 1ea
- Power Cable ☞ 1ea
- User's Manual ☞ 1Book
- Wooden Experiment Case ☞ 1ea

  (it will be supplied only when order application modules)



Win51 Main

Bread Board Unit

- 27 × 55 holes
- SFR connector: 44pins
- EXT connector : 32pins

Dot Matrix Unit

- 16 × 32 Dots
- Red,Green,Amber
- Dot size : 5ø
- SFR connector : 44pins
- EXT connector: 32pins

A/D Converter Unit

- ADC0809(8-bit,8 channel)
- Experiment items :

  Variable resistance, Infrared sensor

  humidity sensor, Thermistor

  optical sensor
- SFR(44pins),EXT(32pins)

D/A Converter Unit

- DAC0800(8-bit,4 channel)
- Experiment items:

  Channel Level Meter 4EA
- SFR connector : 44pins
- EXT connector : 32pins

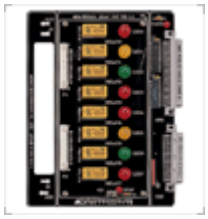
D.C Motor Unit

- DC 12V
- Encoder hole : 14holes
- Push Button Switch : 4EA
- SFR connector : 44pins
- EXT connector : 32pins

STEP Motor Unit

- DC12V, 0.35A, 1.8 °
- Driver : SLA7024M
- Indicator LED : 4EA
- SFR connector : 44pins
- EXT connector : 32pins

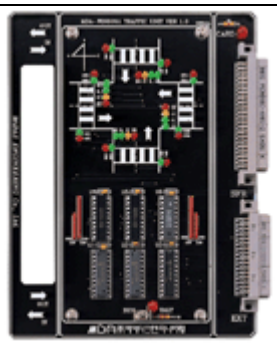
RELAY Unit

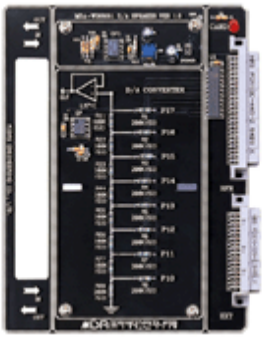
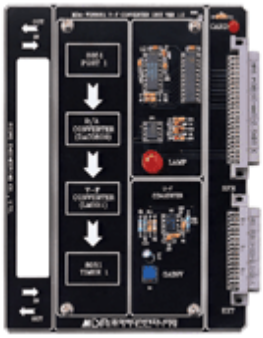
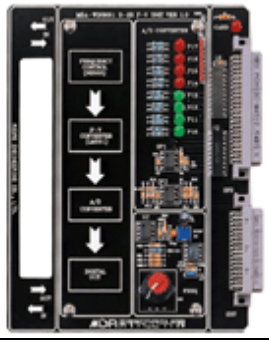


- RELAY : 12V, 8EA
- Relay status LED(10ø) : 10EA
- SFR connector : 44pins
- EXT connector : 32pins

Expension option Modules

(MDA-Win8051, MDA-Win196, MDA-PPI available)

		
MDA-Calculator	MDA-Clock	MDA-Dice
		
MDA-Dot(8x16)	MDA-FND	MDA-Traffic-Unit
		
MDA-Key	MDA-Peripheral	MDA-Optical
		
MDA-IrDA	MDA-RS232C-485	MDA-Ultra

		
MDA-DA-BLM	MDA-DA-Speaker	MDA-VF
		
MDA-R2R-AD	MDA-R2R-FV	MDA-Int.ADC
		
MDA-AC	MDA-Power	