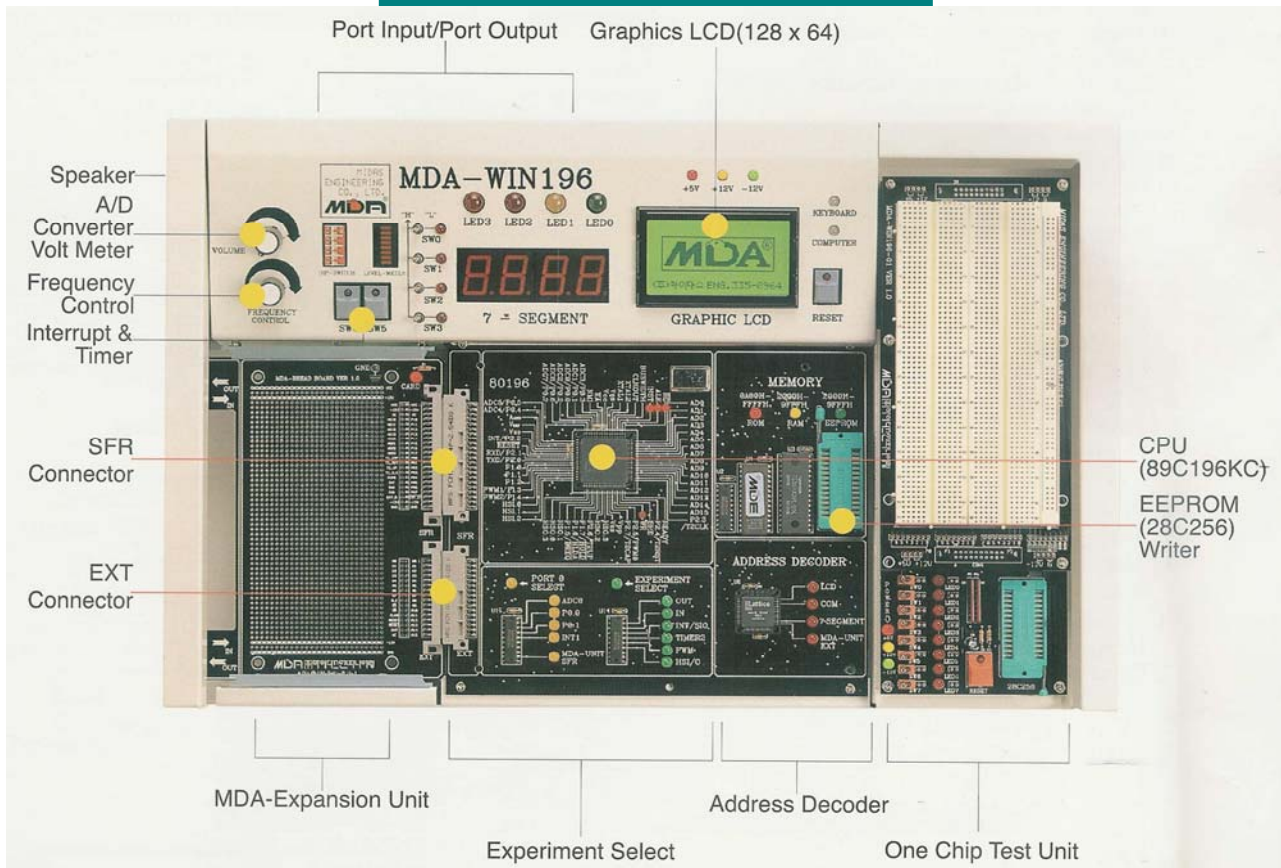


Windows Emulation 80C196KC(16Bit) TRAINER

MDA-Win196



FEATURE

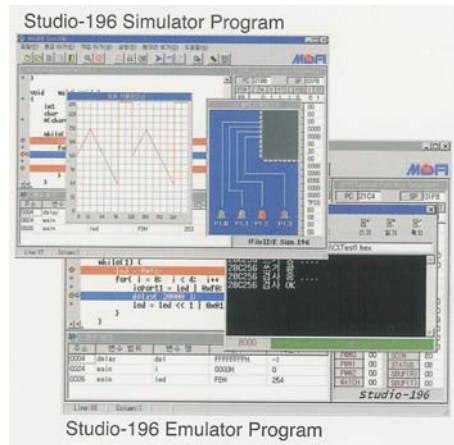
1. STUDIO-196 Program
 - : Applications can be developed and run entirely on the board itself.
 - Assemble and C-Compile
 - Display the machine language and assemble mnemonic code
 - Display the address, and data
 - Indicate an error line
 - Modify the register, program, and data memory.
 - Run, Stop, and Trace function
 - Display input and output data
 - Write EEPROM(28C256) function
2. Program start address : 2080H (Reset vector)
3. Support 4 serial ports. (COM1, COM2, KEY1, KEY2)
4. Various I/O and interrupt experiments
5. Extended units.(D/A converter, A/D converter, DC motor, Step motor, Dot Matrix, Relay and Bread board)
6. Application board experiments using the SFR, EXT connector
7. Graphic LCD display (128X64 dots)
8. Display CPU status on LED
9. EEPROM 28C256 Read, Write, Verify and Erase
10. Metal case
11. Support the program examples
12. +5V, +12V, -12V SMPS(Free Voltage) Power
13. Basic 7 modules included and **optional 20 extra expansion modules available**

■ Technical Specification

PC Operation Program	STUDIO-196(Windows platform)
Micro-Controller	80C196KC
Main RAM	128KBytes (681000 × 1)
Monitor ROM	32KBytes (27256 × 1)
Decoder CPLD	1016E × 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	MA196 assembler, C-Compiler(for Education), STUDIO-196
Extended Coconnector	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 Programmer TEXTOOL	28pins TEXTOOL × 1ea
ONE-CHIP TEST Unit	- Bread Board
	- Reset switch
	- Textool(28pins)
	- OSC(20MHz)
	- 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-196 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)



▷ Win196 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 connctor : 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 connctor : 44pins
- EXT connector : 32pins

▷ D.C Motor Unit



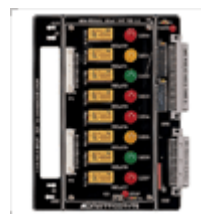
- DC 12V
- Encoder hole : 14holes
- Push Button Switch : 4EA
- SFR connctor : 44pins
- EXT connector : 32pins

▷ STEP Motor Unit



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

▷ RELAY Unit



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

Expansion option Modules

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



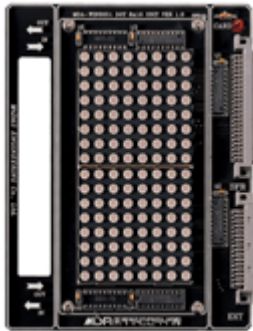
MDA-Calculator



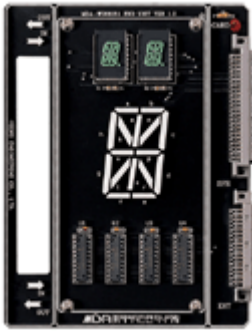
MDA-Clock



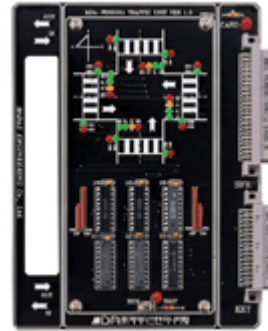
MDA-Dice



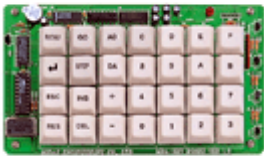
MDA-Dot(8x16)



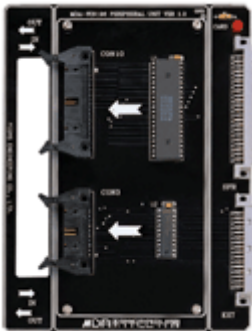
MDA-FND



MDA-Traffic-Unit



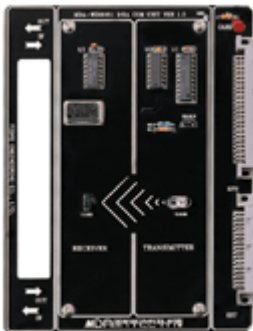
MDA-Key



MDA-Peripheral



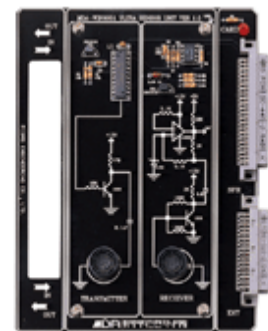
MDA-Optical



MDA-IrDA



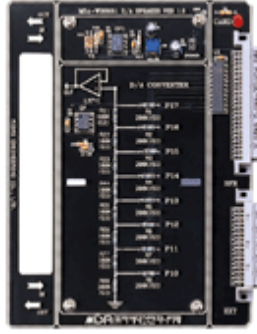
MDA-RS232C-485



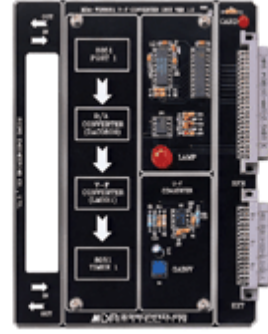
MDA-Ultra



MDA-DA-BLM



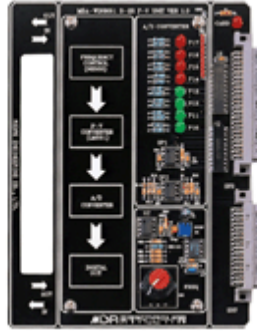
MDA-DA-Speaker



MDA-VF



MDA-R2R-AD



MDA-R2R-FV



MDA-Int.ADC



MDA-AC



MDA-Power