



Feature

1. MDA-EMS196 Integration Development Environment Program
 - Program debugging through break point, trace and instructions step facilities
 - C-language, Assemble language source code debugging function
 - Code memory disassemble function
 - Program scroll display function
 - Program stop function
 - 80C196 register file, Memory dump and editing function
 - 28C256(EEPROM) Writing function
 - Pop-Up Menu display
 - Use to keyboard and mouse
2. User program start address **2080H(RESET Vector)**
3. Various I/O port and interrupt experiments
4. Built-in Keyboard
5. Visual indication by LED's for displaying current system status
6. High speed In-Output experiment
7. Included stepper motor circuit
8. Read/Verify/Write/Erase of 28C256(EEPROM) experiments
9. Volt meter, Thermometer and photo sensor experiments with A/D converter
10. DC Motor speed control by PWM of 80C196KC
11. Hardware timer and frequency counter experiment by Timer 1, and 2
12. Multi Processor data communication experiment by RS-232C/RS-422
13. Various interrupt experiment by PTS
14. External interface connector for user
15. +5V, +12V, -12V S.M.P.S(Free voltage) Power
16. Aluminum Case

Specification

PC Operation Program	MDA-EMS196 Integration Development Environment Program
CPU	80C196KC
Main RAM	64KB (62256 x 2)
Monitor ROM)	128KB (27512 x 2)
Display Unit)	LCD (16 x 4 LINES), with Back-light
Serial Port 1	RS-232C (8251A x1)
Serial Port 2	RS-232C(8251A X1), RS-422 (CPU Serial Port)
System Clock	10MHz
Software	Assembler, C-Compiler MDA-WinIDE EMS196 Program : Emulation Software
MDA-EMS196 Integration Development Environment Program	<ul style="list-style-type: none"> • Display the 80C196KC internal architecture • Source code editing, assembling, compiling, and program writing • Source code debugging functions • Code memory disassemble function • Pop-Up menu display • Program stop by "ESC" Key • Keyboard and mouse • 28C256(EEPROM) Write functions
EEPROM PROGRAMMER	28C256 READ/VERIFY/WRITE/ERASE (28P TEXTTOOL x 1)
TEXTTOOL	28 Pins TEXTTOOL x 1
KEY BOARD	16 keys for data and 8 keys for function
Expansion Connector	System Connector (50 pins x 1), External Connector (20 pins x 1)
A/D CONVERTER (8/10 Bit)	Volume Register 10k Ω , Photo Cell, Thermistor
PWM (D/A CONVERTER)	MOTOR : D.C MOTOR Input Sensor : Photo Interrupter
HSD	Stepping Motor Interface Circuit
TIMER1/ TIMER2/HIS	NE555 x 1
System Bus indicator	LED(3 ϕ) x 12
PLD	PALCE22V10 or GAL22V10 x 3
POWER	Input : AC 85~264V Output : DC +5V (3A), +12V (1A), -12V (500mA)
Board Size (mm)	310 x 265
Aluminum Case (mm)	400(W) x 320(D) x 140(H) \pm 10(mm)
Weight	4 Kg
Accessories	<ol style="list-style-type: none"> 1. MDA-EMS196 Integration Development Environment Program CD : 1 Set 2. RS-232C Cable : 1EA 3. User's Manual : 1 Book
Remark	1 year warranty

* Above product can be changed for improving capability without notice.

