



DIGITAL SIGNAL PROCESSING TRAINER MODEL-DSP100

This trainer has been designed with a view to provide practical and experimental knowledge of digital signal processing.



SPECIFICATIONS

1. PC Operation Program
DSP : TMS320C50
Main RAM : 64KB(62256 x 2)
Monitor ROM : 128KB(27512 x 2)
Display Unit : LCD(16 x 4Line)
Serial Port 1 : RS-232C(8251A x 1)
System Clock : 40
Memory and I/O Decoder : PAL 16L8 or GAL16V8 x 2
2. Integration Development Environment Program.
Display the TMS320C50 internal architecture
Edit, Assemble, Compile, Download and program running of source file
Program the trace, Break function
Code memory disassemble function
TMS320C50 Register Blank & External memory Dump and editing function
Program scroll display function
Pop-up menu display
Program stop function by "ESC" key.
Use to keyboard and mouse
3. Keyboard 16Keyof data, 8Key of function
4. Expansion Connector (I) System 40pin connector x 2, External interface connector 20pin x 1, 8255A, A, B, C port 30pin x 1

In keeping view of SIGMA policy of continuous development and improvement, the Specifications may be changed without prior notice or obligation.

Sigma Trainers and Kits
E-113, Jai Ambe Nagar,
Near Udgam School,
Thaltej,
AHMEDABAD - 380054.
INDIA.

Phone(O): +91-79-26852427/ 26850829
Phone(F): +91-79-26767512/ 26767648
Fax : +91-79-26840290/ 26840290
Mobile : +91-9824001168
Email : sales@sigmatrainers.com
: sigmatrainers@sify.com
Web : www.sigmatrainers.com

Dealer:-

5. Expansion connector(II) Emulator 14pin connector x 1
6. Audio Interface (AIC) TLC32040 (12 bit include with to A/D, D/A)
7. Audio jack Input x 1, Output x 1
8. A/D Converter ADS7805P(16bit)
9. D/A Converter DAC712P(16bit)
10. I/O Output LED 10Ø x 8
11. I/O Input and Interrupt S/W 8Pin Dip S/W x 1, Tact S/W x 4
12. External I/O Interface 8255A x 1
13. Step motor interface Driver T.R x 4
14. System bus indicator LED(5Ø) x 12
15. Power 220V AC

EXPERIMENTS

- 1· MDA-DSP Integration Development Environment Program.
 Display the TMS320C50 internal architecture.
 Edit, Assemble, Compile, Download, and program running of source file.
 Program trace, Break function.
 Code memory disassemble function.
 TMS32-C50 Register block & external memory dump and editing function.
 Program scroll display function.
 Pop-up menu display.
 Program stop function by "ESC" key.
 Use to keyboard and mouse.
- 2· Direct input to machine language.
- 3· LCD display function use to keyboard.
- 4· LED display of current system bus status.
- 5· Various command function.
- 6· I/O Port and interrupt experiment.
- 7· I/O Port experiment use to C-Language.
- 8· In-Output function use to audio or analog signal.
- 9· Analog signal input function use to 16bit A/D converter.
- 10· Analog signal output function use to 16bit D/A converter.
- 11· Extension memory and I/O port interface connector for use.
- 12· +5V, +12V, -12V SMPS (Free Voltage) Power.(110V/220V)
- 13· Wood case.