

TYPE VLSI - 1023 The trainer board is fully compatible with all versions of the Xilinx ISE tools. OMEGA CPLD kit is useful for students who can write small programs & verify them by downloading the program files in the actual CPLD. Sufficient amount of the user interfaces are provided with the trainer kit like Display I/O board, switches for input simulates etc. The JTAG cable is provided for downloading the program file. The board can also be used to program other peripheral boards that contain CPLD devices.

FEATURES:

CPLD I/O board is featured with the following built in parts :

- 01 A Xilinx 95108 CPLD with 108 macro cells
- 02 +5V DC regulated power supply
- 03 A socketed 1.842 MHz oscillator
- 04 A JTAG based programming port using a standard parallel cable
- 05 A status LED and pushbutton for basic I/O
- 06 61 Input /Output ports

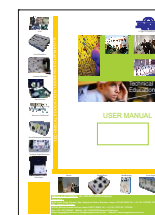
INPUT - OUTPUT DEVICES CONSISTS OF :

- 01 8 Input Logic switches
- 02 8 DIP switches for input stimulus
- 03 4 push buttons for Input stimulus
- 04 LCD display
- 05 One manual pulsar
- 06 Clock divider two - 357.9545 KHz, 35.795 KHz (Selectable)
- 07 8 Output selection LED's
- 08 4 Digit Seven segment display
- 09 Buzzer output
- 10 RS - 232 interface
- 11 Two I/O on Breadboard for External Circuit
- 12 6V DC at 1Amp adaptor

OBJECTS:

Logic designs, Simulation and test of

- 01 Basic Logic Gates
- 02 Decoder
- 03 Multiplexer
- 04 Adder
- 05 Subtractor
- 06 Parity Checker
- 07 Parity Generator
- 08 Flip-Flop (D,T,SR,JK,MS)
- 09 Shift Register
- 10 Serial Register
- 11 Serial Adder
- 12 Shift Counter Register
- 13 4 Bit Counter
- 14 Up Counter
- 15 Frequency Divider
- 16 Divide by 100 (8/5/4/2) Counter



LIST OF ACCESSORIES:

- 01 Xilinx ISE Web Pack with Installation manual (Provided it is freely downloadable)
- 02 Model Sim Starter Edition with Installation manual (Provided it is freely downloadable)
- 03 Video Demo DVD which includes sessions of
 - 3.1 Schematic Editor.
 - 3.2 Basic features of Model Sim Simulator.
 - 3.3 How to Use ISE & Web Pack tools.
 - 3.4 Downloading Designs to Digilent board using ISE & Web Pack tools.
- 04 User Manual.

OTHER APPARATUS REQUIRED :

- 01 PC with Window XP and Internet connection at the time of Installation.

We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.