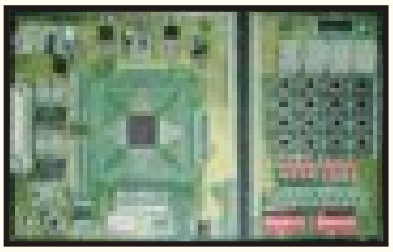
VLSI DESIGN TRAINER

MODEL VLSI100G

This trainer has been designed with a view to provide practical and experimental Knowledge of VLSI Design technique on a P.C.B.



Features

Xilinx Devices
Spartan-3AN (XC3S700AN-FG484)
Platform Flash (XCF04S-VOG20C)

Clocks
50 MHz crystal oscillator on-board
Open slot for optional user-installed clock

Memory
4 Mbit Platform Flash PROM
32M x 16 DDR2 SDRAM
32 Mbit parallel Flash
2-16 Mbit SPI Flash devices

Analog Interface Devices
4-channel D/A converter
2-channel A/D converter
Signal amplifier

Connectors and Interfaces
Ethernet 10/100 PHY
JTAG USB download port
Two 9-pin RS-232 serial port
PS/2-style mouse/keyboard port
15-pin VGA connector capable of 4,096 colors
One FX2 100-pin and two 6-pin expansion connectors
20 user I/O available on standard header pins
Stereo mini-jack for PWM audio
Rotary/push button function switch
Eight individual LED outputs
Four slider switches, four push-button switches.

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Dealer:-

EXPERIMRNTS

1 Introduction to VHDL
2 To study VHDL entities and coding styles
3 To study signals and data types
4 To implement various basic logic gates using VHDL
5 To implement universal logic gates using VHDL
6 To implement different Flip-Flop using VHDL
7 To implement Multiplexer using VHDL
8 To implement decoder/Encoder using VHDL
9 To implement 4 bit adder/subtractor using VHDL
10 To implement 4 bit adder for carry look ahead concept
11 To implement 4 bit universal counter, up/down counter, asynchronous counter