

**Product Name :**  
Astra Scientific FPGA Trainer Kit

**Product Code :**  
VLSI0001



**Description :**

Astra Scientific FPGA Trainer Kit

**Technical Specification :**

**FEATURES**

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It uses Xilinx Spartan XC2S50/XC2S100/XC2S200 FPGA with up to 50/100/200K system gates, and up to 200MHz clock speed.

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It communicates with computer through standard Webpack

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User can develop the circuit/ schematic using Xilinx standard Foundation Series Software and any development tool for VLSI design available in the world.

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It has various on-board interfaces :

1. 16x2 LCD module
2. Six Seven Segment Displays
3. Stepper Motor Controller Interface
4. 8x8 LED Matrix Display
5. EWSN Status LED's 12 Nos.

6.ADC/DAC Interface

7.RS-232 interface

8. Parallel JTAG interface

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Four Data Switches

- Switch Array
- AT24C16 Serial EEPROM
- 4x4 Keyboard
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Power Indicator LED

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It has on board 89C51RD2 for development and processing of 51 family softwares.

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On board microcontroller with 64K flash, 1K RAM ISP with required software.

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It has I/O counter interface to enable it to connect various demo modules. This helps in man to machine interface.

Has a general purpose areas on board to enable it to incorporate additional circuit.



## Astra Scientific

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