



**Order Code - 43540** is a FPGA/CPLD based VLSI Board for implementing various digital design for any Embedded applications.

**Feature:**

01. Supported Piggy Bag Modules:
  - 1.1 **Order Code 43543** - Piggy Bag XILINX XC9572 CPLD (optional)
  - 1.2. **Order Code 43544** - Piggy Bag XILINX XC95108 CPLD (optional)
  - 1.3. **Order Code 43541** - Piggy Bag XILINX SPARTAN XC3S50 FPGA (optional)
  - 1.4 **Order Code 43542** - Piggy Bag XILINX SPARTAN XC3S400 FPGA (optional)
  - 1.5 Piggy Bag ALTRA EPIC6PQ240CB FPGA (optional)
02. Indicators
  - 2.1 16 input using 2 nos. Of 8 way DIP Switch with LED indication to indicate logic low and logic high
  - 2.2 16 LED for output indication.
03. Onboard Interfaces
  - 3.1 4 Digit Seven Segment Displays
  - 3.2 8 bit A/D convertor using ADC-0809.
  - 3.3 8 bit D/A convertor using DAC-0800.
  - 3.4 Stepper Motor Interface.
  - 3.5 Relay Interface.
  - 3.6 Ps2 Interface.
  - 3.7 RS-232 Interface.
  - 3.8 VGA Interface.
  - 3.9 16x1 Alphanumeric LCD Display.
  - 3.10 5x4 Keys Keyboard Matrix.
04. ISP Programmer for Piggy Bag Module
05. Clock generator
  - 5.1 On-board 50MHz, 10MHz, 5MHz, 1MHz, 100KHz & 100Hz.
06. Power selection : On-board of 5V, 3.3V, 2.5V, 1.5V & 1.2V.
07. Power on Reset and configuration reset key
08. I/O expansions are provided through 26 pin FRC Connector for other application interface.
09. All IC's are mounted on IC Sockets.
10. Bare board Tested Glass Epoxy SMOBC PCB is used.
11. In-Built Power Supply of +5V/1.5A, ±12V/250mA
12. Attractive Wooden enclosures of Light weight Australian Pine Wood.
13. User's Manual with 25 sample experimental programs.

**Optional:**

01. **Order Code 43543** - Piggy Bag XILINX XC9572 CPLD
02. **Order Code 43544** - Piggy Bag XILINX XC95108 CPLD
03. **Order Code 43541** - Piggy Bag XILINX SPARTAN XC3S50 FPGA
04. **Order Code 43542** - Piggy Bag XILINX SPARTAN XC3S400 FPGA
05. Piggy Bag ALTRA EPIC6PQ240CB FPGA

**Optional Interfaces :**

01. **Order Code 43546** - Interface Traffic Light for 43540, 43545
02. **Order Code 43547** - Interface Stepper Motor for 43540, 43545
03. **Order Code 43548** -Interface Real Time Clock for 43540, 43545
04. **Order Code 43549** -Interface ADC0809 for 43540, 43545
05. **Order Code 43550** -Interface Dual DAC0800 for 43540, 43545

Note: Specifications are subject to change.

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