ARM 7 Development Board 43558 is a 32-bit development platform and serves as a means for code development. This trainer is designed for students to explore ARM architecture and on board supporting peripherals which provide an ideal platform for extensive embedded development. This trainer provides both the serial and USB connections which can be used to download and run a code on any standard IDE. This trainer allows users to evaluate, prototype and create application specific designs.

Object

01 Study and analysis of interfacing of LEDs
02 Study and analysis of interfacing of Switches
03 Study and analysis of interfacing of 16 x 2 Alphanumeric LCD
04 Study and analysis of interfacing of 12 bit Internal ADC
05 Study, analysis and programming for Transmission & Reception of data through UART0
06 Study, analysis and programming for Transmission & Reception of data through UART1
07 Study, implementation, analysis and interfacing of 4 x 4 matrix keypad

Features

01 LPC2294 (ARM 7 TDMI 32 Bit) MCU clocked at 12MHz
02 Expansion connectors for plug in modules and prototyping area
03 On board Flash download utility (programmer) for Philips microcontrollers
04 Both USB & RS232 interface given for programming
05 Every pin is marked in order to make the work easier
06 Master Reset/Restart Key for hardware reset
07 On board 16 x 2 Alphanumeric LCD Interface
08 On board UART 0 and UART 1 Interface
09 On board Switch Interface

10 On board ADC (10 Bit) Interface
11 On board 4 x 4 Matrix Keypad Interface
12 On board I2C Interface
13 On board facility to connect JTAG debugger
14 Input/Output & test points provided on board
15 Self contained trainer with on board DC and AC power supply
16 CD with sample project code, Programmer software & useful documents
17 Exhaustive course & reference material

Technical Specifications

01 MCU : LPC2294
02 Crystal frequency : 12MHz
03 LEDs : 08 Nos.
04 Switches : 04 Nos.
05 Keypad : 4 x 4 Matrix Keypad
06 ADC : 10 Bit Internal ADC
07 Display : 16 x 2 Alphanumeric LCD
08 Serial communication : Two RS232 Port
09 Programmer : USB/Serial port
10 Programmer mode selection : RUN/ISP Switch
11 Baud rate : 9600 bps (for both USB & Serial port)
12 Programmer unit : Ready to run programmer will program Philips flash devices
13 Test points : 07 Nos.
14 Interconnection : 2 mm patch cords and FRC cables
15 Mains supply : 230V + 10% 50Hz
16 Power consumption : 20V A (approximate)
17 Dimensions (mm) : W340 x H125 x D210
18 Weight : 1.3kg (approximate)

List of Accessories:

01 RS232 serial cable ----------------------01 Nos.
02 USB cable ------------------------------01 Nos.
03 20 Pins FRC connector--------------------01Nos.
04 Patch cord 2 mm length 50cm -----------02 Nos.
05 Software CD ----------------------------01Nos.

Note: Specifications are subject to change.