Order Code - 43554
Micro controller Development Board with Programmer AT89S51/52

Microcontrollers and Digital Signal Processors are the main engines of the deeply Embedded development world.

Microcontrollers are primarily used in control oriented applications that are interrupt driven, in sensing and in controlling external events.

Microcontroller Trainer 43554 is AT89S52 based development platform that provides understanding of all the fundamentals of Microcontrollers. It helps the user to gain Knowledge regarding Arithmetic, Logic, Single bit programming and interfacing of peripherals. It also provides a development platform to design and implement Microcontroller based systems. The trainer is user friendly & completely self contained, having all the basis required circuits and controls on board.

Objects

01 To study Interfacing of ADC with MCU.
02 To Study of Timing and control signal of ADC.
03 To study implementation, analysis and interfacing of ASCII keyboard.
04 To study and analyze the interfacing of switches
05 To study basics of Serial communication and MCU connections to serial port.
06 To study MCU connections to Parallel Port
07 To study PC Hyper terminal
08 To study programming and Transmission of data through Serial Port.
09 To Study programming and Reception of data through Serial Port.
10 To Study and Analyze the interfacing of 16 x 2 Characters LCD.
11 To Study installation procedure of Parallel Port viewer.
12 To Study implementation and analysis of printer interface using Parallel port.
13 To study of Synchronous and Asynchronous serial communication and many more...

Technical Specifications

01 Programmer : In built USB Programmer
02 Serial Communication : Rs-232 Port
03 Parallel Communication : 25pin LPT port
04 Baud Rate : 9600 bps
05 MCU : AT89S51/52
06 Crystal Frequency : 11.0592 MHz
07 Display : 16 x 2 Characters LCD
08 Keyboard : ASCII Keyboard
09 LED's : Eight No's
10 Switches : Four No's
11 Printer : Dot Matrix Printer (Optional)
12 Contrast Control : 0 - 5 V (Variable)
13 Interconnections : 2mm sockets
14 Test Points : 43
15 Back light Controls : 0 - 5V (variable)
16 ADC Input and - Reference voltage range : 0-5V DC (Variable)

General Specifications

01 In Built USB Programmer
02 Atmel 89S51/52 MCU clocked at 11.0592 MHz
03 16x2 Characters LCD Interface
04 8 channel ADC Interface
05 ASCII Keyboard Interface
06 LED Interface block
07 RS-232 Interface using Rx/Tx of MCU for Uploading / Downloading
08 Printer Interface
09 Four Input sensing Switches
10 Pin to pin study of microcontroller unit
11 Visual Indication by LED's for displaying data, status & controls pins.
12 Reset / Restart Button
13 Input/Output & test points provided on board
14 Self-Contained trainer with built in power supply.
15 User friendly software
16 Exhaustive course & reference material

General

01 Power Supply : 230V + 10%, 50Hz
02 Power Consumption : 17 VA (Approx).
03 Dimension (mm) : 300x400x113
04 Weight : 2.2Kg. (Approx)

List of Accessories

01 RS-232 Serial port interface cable 9 pin male to female. ----------01
02 Panel cord interface cable 25 pin male to female ----------01
03 ASCII Keyboard interface cable----------01
04 Patch cord 50cm 2mm plug Red ----------05
05 Patch cord 50cm 2mm plug Black----------05
06 Software CD----------01

Note: Specifications are subject to change.

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