



43215 is a single board Microcontroller Trainer Kit based on 8 bit 8051 Microcontroller, which is widely used to train engineers to develop on software/hardware for any industrial process & control. Kit has power-full Monitor EPROM, RAM, I/O Lines, Timer/Counter, Serial, LCD Display, Keyboard for Man to Machine Interface.

Features

- 16K Bytes of EPROM with 32K bytes of Battery Backup RAM.
- 48 I/O Lines, Three Channel Timer/Counter, PC Serial Interface using USART, 12 bit ADC, DAC, RTC. 5 20x2 LCD Display with 101 ASCII Keyboard.
- Power-full Command like Single Stepping, Break Point, Full Clock Execution, Examine Memory/ Register.
- Uploading & Downloading to and from PC in Windows98/XP/NT.
- In-Built Power Supply.

Specifications

- 8051/89C52/89C51RD2/89C61X2 CPU operating @11.0592MHz.
- 32K user RAM using 6264 with Battery Backup using NICD Battery (Optional).
- One socket is provided for RAM expansion up to 64K.
- 16K bytes of powerful monitor EPROM using 27512.
- 48 I/O lines using 2 Nos. of 8255 brought at 26 Pins FRC Connector to interface with IC-XX Series.
- Three Channel Timer/Counter using 8253.
- 20x2/40x2/20x4 Alphanumeric LCD Display with Backlite

- 101 ASCII Keyboard interface using 89c2051 operating @ 12MHz
- On-board Single Line Assembler & Disassembler.
- Two External interrupts INT0 & INT1 are available at 40 pin FRC connector.
- RS-232C using RX/TX of 8051.
- Two modes of operation:
- Keyboard Mode, Serial Mode.
Powerful Commands like Examine/ Edit Memory, Examine/Edit Register, Single stepping, Execution, Break Point can be used through ASCII keyboard or PC serial mode.
- Facility for Downloading/Uploading files from/to PC.
- All Address, Data, Control & Port lines are available on 40 Pins & 20 Pins FRC Connector.
- All IC's are mounted on IC Sockets.
- Bare board Tested Glass Epoxy SMOBC PCB is used.
- In-Built Power Supply of +5V/1.5A, ±12V/250mA
- Attractive Box Packaging.
- User's Manual with sample programs.

Optional

- On-board ISP (In-system Programming) Facility.
- PRINTER INTERFACE to interface with DOT MATRIX Printer.
- RS-232C interface using 8251.
- On-board 12 Bit ADC using Ad574.
- On-board 8 bit DAC using DAC-0800.
- On-board Real Time Clock using 6242.

Note: Specifications are subject to change.

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