



43214 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, Seven Segment Display, Keyboard for Man to Machine Interface.

Features

- 16K Bytes of EPROM with 8K bytes of Battery Backup RAM.
- 48 I/O Lines, Three Channel Timer/Counter, PC Serial Interface using USART, Interrupt Controller.
- Seven Segment Display with 25 Keys Hex Keypad.
- 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

- 8051/89C51 CPU operating @10/12MHZ.
- 8K 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 brought out at 10 Pins FRC Connector.

- 25 Keys Hexadecimal Keyboard and Six Digit Seven segment display using 8279 KBD Controller
- Two External interrupts INT0 & INT1 are available at 40 pin FRC connector.
- RS-232C interface using 8251 brought out at 9 Pins D-Type Connector.
- Auxiliary RS-232C using RX/TX of 8051 brought out at 9 Pins D-Type Connector.
- 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 hex 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

- PRINTER INTERFACE to interface with DOT MATRIX Printer
- RS-232 Cable.

Note: Specifications are subject to change.

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