



**43216** is a single board Microcontroller Trainer Kit based on 16 bit 8096 Microcontroller family, 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 16K bytes of Battery Backup RAM.
- 24 I/O Lines, Three Channel Timer/Counter, PC Serial Interface .
- 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

- 80196KB/80196KC/8051 CPU operating at 12 MHz.
- 16K bytes of RAM using two nos. of 6264 with Battery Backup using NICD Battery, Memory Expandable up to 64K.
- 16K bytes of powerful monitor EPROM using 27512.

- 24 I/O lines using 8255 brought at 26 Pins FRC Connector to interface with IC-XX Series.
  - RS-232c interface using Rx/Tx of 80196.
  - Eight Digital Seven Segment Display with 25 Keys hex keyboard using 8279.
  - On-chip 8 Channel 10 bit ADC.
  - On-chip PWM.
  - On-chip High speed I/O.
  - On-chip Interrupt.
- Two modes of operation:
- Keyboard Mode.
  - Serial Mode.
- Cross assembler software for 80196.
  - Powerful Commands like Examine/Edit Memory, Examine/Edit Register, Single stepping, Execution 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 Wooden enclosures of Light weight Australian Pine Wood.
  - User's Manual with sample programs.

Note: Specifications are subject to change.

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