



43219 is a single board Microprocessor Trainer Kit based on 8085 Microprocessor, which is widely used to train engineers to develop software/ hardware for any industrial process & control. This Kit consists of power-full Monitor EPROM, RAM, I/O Lines, Timer/Counter, Serial, Seven Segment Display and Keyboard for Man to Machine Interface.

#### Features

- 8K bytes of EPROM with 8K bytes of battery backup RAM.
- 48 I/O Lines, Three Channel Timer/Counter, PC Serial Interface.
- Seven Segment Display with 28 Keys Hex Keypad.
- Power-full Command like Single Stepping, Break Point, Full Clock Execution, Examine Memory/ Register.
- Uploading & Downloading to and from PC in Windows 98/XP/NT.
- In-Built Power Supply.

#### Specifications

- Based on 8085 CPU operating at 6.144 Mhz.
- 8K bytes of Powerful Monitor Program using 27512 EPROM
- 8K bytes of RAM using 6264 with Battery Backup using NICD Battery.
- On-board one memory expansion up to 56KB.
- Three Channel Timer/Counter using 8253 brought out at 10 Pins FRC Connector.
- 48 I/O lines provided through two nos. of 8255 brought out at 26 Pins FRC Connector to interface with IC-XX Series.
- RS-232C interface through SID/SOD lines
- Two mode of commands:
  - Hex Key pad Mode
  - Serial Mode
- Six Digit Seven Segment Display using 8279.
- 28Key's Hex Keypad using 8279 Keyboard Display Controller.
- Powerful Commands like Examine/Edit Memory, Examine/Edit Register, Single stepping, Execution, Block Move,

Insert Data, Delete Data can be used through Hex keyboard or PC serial mode.

- Facility for Downloading/Uploading files from/to PC.
- All address, data & control lines are available on KXT Bus 50 pin FRC Connector to interface with SC-XX Series.
- All ICS 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 ABS Plastic enclosures.
- User's Manual with sample programs.
- 270mm x 185mm x 105mm (L x W x H).
- Weight 3 Kgs.

#### Optional

- PRINTER INTERFACE to interface with DOT MATRIX Printer

Note: Specifications are subject to change.

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