Specifications

Sl. No.	Item and Specification
1	**8086 Microprocessor Training KIT with LCD Display and 101 ASCII Keyboard** ➢ 8086 CPU operating at 2.5/5MHz ➢ 16K bytes of RAM using two nos. of 6264 with Battery Backup expandable up to 256KB. ➢ 16K bytes of powerful monitor EPROM using two nos. of 27512 ➢ 72 I/O lines through 3 nos. of 8255 brought at 26 Pins FRC Connector to interface with IC-XX Series ➢ 16 bit Timer/Counter through 8253 brought out at 20 Pins FRC Connector. ➢ RS-232C interface using 8251 brought out at 9 Pins D-Type Connector. ➢ On-board Interrupt controller using 8259 brought out at 20 Pins FRC Connector. ➢ 20x2 Alphanumeric LCD Display with Backlite. ➢ 101 ASCII Keyboard interface using 89C2051 operating at 12MHz ➢ On-board Single Line Assembler / Disassembler ➢ All address, data & control lines on KXT Bus 50 pin FRC Connector to interface with SC-XX Series. ➢ Bare board Tested Glass Epoxy SMOBC PCB. ➢ In-Built Power Supply of +5V/2A, ±12V/250mA
2	**Stepper Motor Controller Card with Motor** ➢ Controls a Two/Four phase motor, speed, Half Step, Full Step, Clock Wise & Anti Clock wise rotations ➢ Facility to control maximum 2Kg cm Motor ➢ Provision for connecting external 5V/12V supply to drive the motor ➢ Connect to 8255 using 26 pin FRC Connector.
3	**8255 Programmable Peripheral Interface Study Card** ➢ 24 bit I/O using 8255 Programmable Peripheral IC ➢ All Input/Output ports pins should terminate on 3 eight pin terminals and 26 pin FRC Connector ➢ All Input/Output ports indicated by 3 mm LED. ➢ Data lines from AD0 to AD7 indicated by 3 mm LED. ➢ Chip Select, A0, A1, Read, Write indicated by 3 mm LED. ➢ Hardware Single Step and Full Clock Execution mode . ➢ Single stepping using micro switch on board. ➢ Interface 8086 Kit using 50 pin FRC Connector.
4	**8279 PKDC Study Card** ➢ Programmable Keyboard Display Controller using 8279 IC. ➢ All scan lines/return lines are fed through input terminals and 26 pin FRC connector. ➢ Data lines from AD0 to AD7 indicated by 3 mm LED. ➢ Chip Select, Read, Write, INTA, A0 indicated by 3 mm LED. ➢ Hardware Single Step and Full Clock Execution mode are provided. ➢ Single stepping performed using micro switch. ➢ 8 Digit Seven Segment display with 20 keys keypad interface module ➢ Interface 8086 Kit using 50 pin FRC Connector.

5	**8051 Microcontroller Training Kit (LCD Display)** ➢ 8051 CPU operating @ 11.0592 MHz. ➢ 32K user RAM using 62256 with Battery Backup using NICD Battery ➢ 16K bytes of powerful monitor EPROM using 27512. ➢ One memory socket for expansion up to 64k ➢ 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. ➢ 20x2 Alphanumeric LCD Display with Backlite. ➢ 101 ASCII Keyboard interface using 89C2051 operating at 12MHz. ➢ Two External interrupts INT0 & INT1 at 40 pin FRC connector. ➢ RS-232C using RX/TX of 8051 terminated on 9 Pins D-Type Connector ➢ Onboard Single Line Assembler / Disassembler. ➢ Two modes of operation: - ASCII Keyboard Mode. - Serial Mode. ➢ All Address, Data, Control & Port lines on 40 Pins & 10 Pins FRC Connector. ➢ All ICS mounted on IC Sockets. ➢ Bare board Tested Glass Epoxy SMOBC PCB . ➢ In-Built Power Supply of +5V/1.5A, ±12V/250mA
6	**Peripheral Application Board** ➢ 8 bit ADC using ADC-0804 with A/D Conversion time 100 micro sec ➢ 8 bit accuracy DAC chip using DAC-0800 with Settling time is 100 ns. ➢ 4 digit Seven Segment display using decoder Technique. ➢ 12 no's of led's for EWSN. ➢ 4 way DIP switch & 4 keys for input key's application ➢ One 5V SPDT Relays ➢ Stepper Motor Control a Two/Four phase motor ➢ 600 Tie Point Bread Board for project application.

Yogaree