



AVR MICROCONTROLLER TRAINER

MODEL - AVR100

This trainer has been designed with a view to provide practical and experimental knowledge of AVR family microcontroller.



FEATURES

1. Evaluate Real Time Applications
2. Supports Embedded C, ASM
3. ISP Programming | SPI | I2C Communications

SPECIFICATIONS

1. Devices : ATMEGA8535, 8515, ATMEGA16, 32
2. Memory : 4-32KB FLASH - Program
3. Clock:8MHz crystal, Max = 20 MHZ
4. 40pin-ZIF Socket
5. 8 Nos. Point LEDs (Logic Output)
6. 8 Nos. Digital Input (DIP Switch)
7. 4x4 Matrix Keypad
8. 2X16 Character LCD (Background Light)
9. 4 Nos. 7-Segment Display
10. ADC with Analog Input Test (Potentiometer)
11. Stepper Motor Interface
12. 1 No. of SPDT Relay
13. DS1307 RTC with Battery-Backup
14. USART(RS232)
15. ISP Device Programmer
16. Buzzer (Alarm), 3 Interrupts , Reset Button
17. EEPROM (SPI and I2C)
18. *128x64 Graphical LCD

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Dealer:-

19. Digital Temperature Sensor(DS18S20)
20. RF433.92 MHz Receiver
21. Ethernet Interface
22. Books for Embedded Systems : 10 Nos in pdf Format
23. Mp4 Video Class for embedded systems : 40 Classes in Mp4 on DVD / Pen Drive

EXPERIMENTS

1. LED Interfacing with AVR Microcontroller
2. 0 to 9 counter using single seven segment
3. 0 to 99 UP / Down counter using two seven segment
4. "HELLO WORLD" display on 16*2 LCD
5. Moving Message display on 16*2 LCD
6. Push button switch interfacing Pull UP / Pull Down
7. 4*4 Matrix keyboard with LCD
8. Internal ADC with POT. With LCD display
9. Internal ADC with LM35 Temperature sensor
10. Simple DC Motor & Servo motor Forward & Reverse
11. External interrupt, LED Blinking
12. Serial data transmission
13. Serial data receiving using internal interrupt
14. Serial data display on LCD
15. Internal EEPROM Read & Write
16. To study SPI protocol using Ethernet interface
17. To study Graphical LCD
18. To study one wire protocol using DS18B20 temperature sensor
19. To study VGA Protocol