



43285 Tduino Interface Module (Arduino Compatible) is a full featured development platform for ATmega328P microcontrollers. The 43285 is a convenient way to teach the principles of the Arduino & the family of AVR microcontrollers through programming and interfacing on the ATmega328P device. It is an ideal

platform to implement and test the designs both for the beginners and the experts. Using the platform a range of projects in various domains like telecommunication, robotics, consumer electronics etc can be done.

43285 Tduino Interface Module is a platform designed for students. It will help them to get aware with the world of microcontroller and embedded systems.

## **Features**

- 1. ATmega328P MCU clocked at 16MHz
- 2. USB Boot loader to program ATmega328P
- 3. On board ISP connector for PC based programming
- 4. Every pin is marked in order to make understanding easier
- 5. Master Reset/Restart key for hardware reset
- 6. On board variable supply
- 7. On board Temperature Sensor
- 8. All GPIO's are provided on 3 connectors (10X2)
- 9. On board 10-bit ADC provides variable analog output
- 10. On board External Power Socket
- 11. USB or External power, selectable with a jumper
- 12. CD with sample project code, Programmer software & useful documents

## **Object**

1. Learn the concept of Arduino IDE

- 2. Learn to interface AVR series microcontroller
- 3. Pin to pin study of MCU
- 4. Study of serial protocol
- 5. Study and Interface Temperature sensor
- 6. Study of Internal ADC & PWM
- 7. Study and Interface various external MCXX series modules (optional)

## **Technical Specifications**

Microcontroller : ATmega328P Operating Voltage: 2.7V-5.5V Input Voltage 2.7V-5.5V

Digital I/O Pins 14 (of which 6 provide PWM

output)

Analog Input Pins:

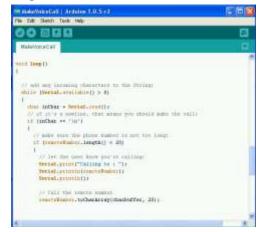
Flash Memory 32KB (of which 2KB used by

boot loader)

SRAM 2KB EEPROM 1KB Clock Speed : 16MHz : 0-5.0 Volt Variable Supply Sensor : LM35 On board

## **Included Accessories**

USB A to B type cable -1 no., LM35 IC-1no, 20Pin FRC Cable- 2nos, Patch cord -6nos, Software & Learning material CD -1 no.



Note: Specifications are subject to change.

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