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 device
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	:	6
Flash Memory	:	32KB (of which 2KB used by boot loader)
SRAM	:	2KB
EEPROM	:	1KB
Clock Speed	:	16MHz
Variable Supply	:	0-5.0 Volt
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.

Tesca Technologies Pvt. Ltd.
IT-2013, Ramchandrapura Industrial Area, Sitapura Extension,
Near Bombay Hospital, Vidhani Circle, Jaipur-302022, Rajasthan, India,
Tel: +91-9829132777; Email: info@tesca.in, tesca.technologies@gmail.com
Website: www.tescaglobal.com

14.02.2024