



### System Specifications

- CPU: Philips LPC214X Microcontroller
- Four Seven-Segment Display Interface
- LCD Display Interface
- 4x4 Matrix Keyboard Interface
- Output LEDs: 8 Nos.
- ADC Interface
- Four Data Switches
- Relay Interface
- Opto Interface
- I.R. Interface
- Traffic Light Interface
- Stepper Motor Interface
- AT24C16 Serial EEPROM
- Real Time Clock
- USB Interface of MCU for uploading/downloading

### Peripheral Features (Internal)

- 16/32-bit ARM7TDMI-S Core
- 512K Bytes Program Flash, 42K Bytes RAM
- USB 2.0, RTC, 10-bit ADC (2.44  $\mu$ s)
- 2x UARTs, 2x I2C, SPI
- 2x 32-bit Timers, 6x PWM, 8x CCR
- 1x DAC, Watchdog Timer
- 5V tolerant I/O, up to 60 MHz operation

### Experiments

1. Study of ARM7 processor architecture & pin diagram
2. Study of Interrupt structure in ARM processors
3. Program to flash LED
4. Interfacing of LCD display
5. Program to interface ADC

6. Program to generate Ramp waveform using DAC
7. Program to control speed of DC motor
8. Interfacing of relays and control programming
9. Program to control Stepper Motor

### Interfaces

- Zigbee Interface
- Biometric Information Recorder (Fingerprint)
- RFID Interface

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



Export Sales: +91-9829132777  
 India Sales: +91-9588842361



IT-2013, Ramchandrapura Industrial Area,  
 Sitapura Extension, Jaipur-302022, India.



info@tesca.in  
 www.tescaglobal.com