

ARM 7 Development Board

Introduction

Board based on ARM LPC 2148.
This board is useful for Students/Faculty and Industrial professional.
This board is very small & portable & easy to operate
USB programming & other interfaces.

Technical Specification

- Processor – ARM 7 LPC 2148
- Crystal OSC-12MHz
- Inbuilt: -0 -60MHz
- Display: - 16 X 2 LCD,
4 seven segment, 8 SMD-Led
- I/P: - 8 I/P DIP Switch
- PS2 Keyboard
- Micro SD Card
- On board LM35 temp sensor
- On Board X-bee device
- On board USB programing facility
- On board RTC/EEPROM
- On boards buzzer
- On board Relay 6v
- I/O expansion – connector
- On board power supply
- Optional hex Keyboard (4x4) connector
- Optional stepper motor Interface

Experiments

1. Study of ARM evaluation system
2. Interfacing ADC and DAC.
3. Interfacing LED and PWM.
4. Interfacing real time clock and serial port.
5. Interfacing keyboard and LCD.
6. Interfacing EPROM and interrupt.
7. Mailbox.
8. Interrupt performance characteristics of ARM and FPGA.
9. Flashing of LEDs.
10. Interfacing stepper motor and temperature sensor.
11. Implementing zigbee protocol with ARM.



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