

ARM COTEX-M3-LPC1768

Introduction

- ARM 1768 development board for rapid prototyping
- LPC 1768 is developed with an extensive set of Peripheral that allows for broad way of Design & Application.
- On board regulator for 3.3 V and dc socket for adaptor
- On board connector for JTAG debugger interface.
- On board crystal oscillator for internal RTC.
- Backward compatible with Universal microcontroller development board.

Features For Lpc 1768

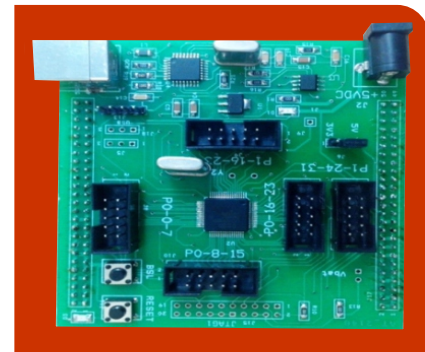
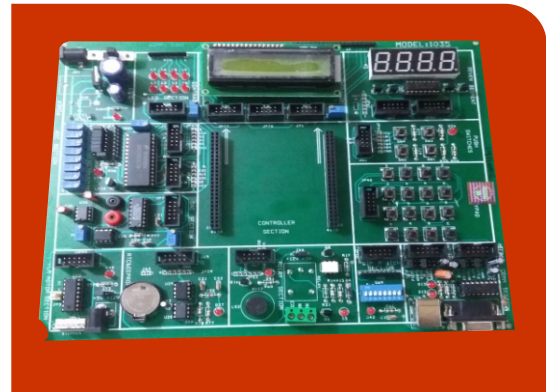
- ARM COTEX-M3 (LPC1768) processor at 100 MHz.
- ARM Core with 64 KB of SRAM and 512 KB Flash.
- 8-channel general purpose DMA controller
- Four UART's
- Two CAN channels
- Two SSP controllers
- SPI interface
- Three IC interfaces
- 2 – input plus 2 – output IS interface
- 8 – channel 12 – bit ADC
- 10 – bit DAC
- Motor control, Quadrature Encoder interface and
- 6-output general purpose PWM
- Four general purpose timers
- Ultra-low power RTC with separate battery supply

Specification for Mother Board

- Four push to ON Input switches.
- 16X2 LCD display
- 128X64Graphical LCD display
- Four multiplexed seven segments
- EEPROM with 4K memory or more
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- RTC with 32 KHz crystal with battery backup.
- On Board USB Interface
- Stepper motor driver circuit.
- input from DIP switches.
- 8 output from LED.
- 128X64Graphical LCD display
- Rs232 for serial Communication
- DAC 8- Bit
- ADC 8- Bit & 8 Channel.

Optional Daughter Boards

- 8051 Daughter Board
- PIC Daughter Board (PIC16F877,PIC18F452)
- AVR Daughter Board (ATMEGA 8515 , 8,16,32)
- ARM 7 Daughter Board (2148,2138)
- ARDUINO Daughter Board



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