

ARM LPC2148

DESCRIPTION

The ARM LPC2148 Mini-Development Board can be used to experience the full capabilities of the NXP LPC2148 Microcontrollers. It is very much supportive in code development, debugging and prototyping to fully experience the power of ARMTDMI7 LPC2148 peripherals features. This board is used with varies break out boards and external peripherals for programming and ideally suitable for beginners, trainers and hobbyists. Since it is provided with male header to interface to varies modules, and circuits easily and also varies on-board power option (3.3V, 5V and 12V DC) for the components and device to be interfaced.

DEVELOPMENT BOARD FEATURE

- Board-Mini has LPC2148 microcontroller with USB 2.0 full-speed device.
- High Quality Two layer PTH PCB.
- On Board Two RS-232 Interfaces with female DB9 Connectors with ISP Support in UART0.
- Two Way External Power Supply 12V and 1 Amp through DC Power Jack and using USB B-Type Socket.
- Board Supports LCD (16x2 and 20x4 in 4bit Mode) Display.
- On Board 12 MHz Crystal Oscillator.
- Power Supply Reverse Polarity Protection.
- On Board supports Varies Power Option (3.3V, 5V and 12V DC).
- On Board Potentiometer for LCD Contrast Adjust.
- On Board 32.768 KHz Crystal Oscillator for in-build RTC.

- On Board 20pin Male Header JTAG Connector for Debug/Program.
- On Board Jumper for UART Communication with PC and other Devices.

LPC2148 FEATURE

- LPC2148 32 bit ARM7TDMI-S in a tiny LQFP64 package.
- 512 KB Programmable Flash Memory provides 10 years of data-retention.
- 32 kB Static RAM + 8 kB Static RAM shared with USB DMA.
- USB 2.0 Full-speed compliant device controller
- Real-Time Clock (RTC) with independent power and 32 kHz clock input.
- 10-bit ADCs provide a total of 6/14s per analog channel input with conversion times as low as 2.44.
- 2x UARTs.
- 2x I2C (I2C0, I2C1).
- SPI.
- 2x 32bit TIMERS (with four capture and four compare channels each).
- 6x PWM.
- 8x CCR.
- 10bit 1x DAC.
- Watch Dog Timer.
- Up to 21 external interrupt pins available
- 4.5 V to 5V tolerant fast general purpose I/O.

DATASHEET

1. LPC2148 – Data Sheet
2. LPC2148 – User Manual
3. ILX3232D
4. AMS1117
5. IL1117-3.3

IMAGE

