Zkit-ARM-1769

ZK-1769-P1 Embedded Networking Dev. Kit

ZILOGIC SYSTEMS

Description

The ZKit-ARM-1769 is an NXP LPC1769 based 32-bit ARM Cortex-M3 microcontroller development kit. It is a full featured network-enabled embedded platform which can be used as a single board computer for product development and prototype development.

The Kit has maximum set of peripherals and provides maximum flexibility with the breakout header for IOs. It also provides networking capabilities via Ethernet and CAN.

The kit is bundled with the tools engineers need to develop and prototype embedded applications right out of the box. The board is also suitable for teaching and learning embedded system programming.

Advantages

- USB powered - No external supply required
- USB programmable - No serial port required.
- Powered by free and open source software
- Works both in Linux & Windows.
- Ported with NuttX - an open source Real-Time Operating System.
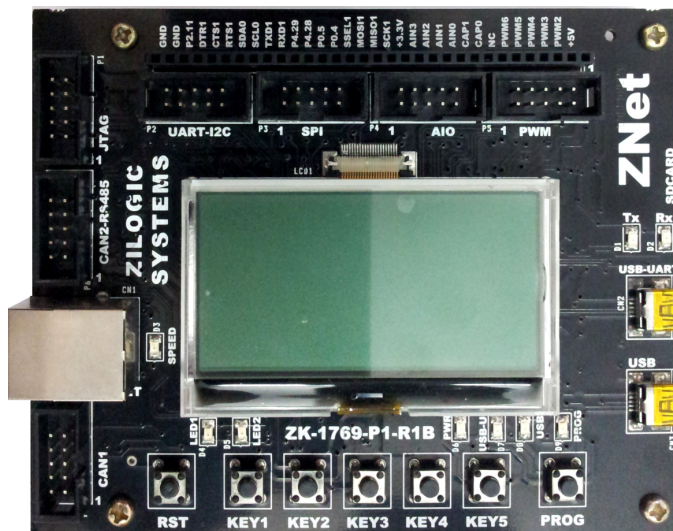
LPC1769 Features

- NXP LPC1769 based 32-bit ARM Cortex-M3 microcontroller
- 512 kB flash and 64 kB SRAM
- USB 2.0 full-speed device

- Ethernet MAC with RMII interface and dedicated DMA controller
- Two-channel CAN controller
- UART with internal FIFO and RS-485 support
- Two SSP controllers with FIFO
- I2C and SPI bus interface
- I2S interface for digital audio
- Four counters/timers with capture inputs and compare outputs
- WatchDog Timer
- Motor control PWM and Quadrature encoder interface
- Real-time clock(RTC) with separate power domain
- System tick timer
- 12-bit 8-channel ADC and 10-bit DAC
- JTAG interface

Board Features

- 1x 10/100Mbps Ethernet
- 2x CAN 2.0B
- SD-Micro card support
- 128x64 Graphics LCD display
- EEPROM for data storage
- 2x Debug LEDs
- 5x User-programmable Keys

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