Samsung
S3C2440A
Arm9 Processor

Development Tools
For
MINI 2440
MICRO 2440
NANO 2440 STAMP
MICRO 2440 STAMP

FriendlyARM

MICRO2440+LCD7.0

The MICRO2440 is an effecient ARM9 development board with a comprehensive price, it characterizes simple method and high performance-price ratio. Based on the Samsung S3C2440 microprocessor, it embodies professional stable CPU core power source chip and reset chip to ensure the stability of the system operation. MICRO2440 board consist of MICRO2440-STAMP board (CPU core module) and a MICRO2440 SDK board. The PCB MICRO2440-STAMP board is designed to be 4-layers board, adopting the ENIG technology and professional equal-length wiring to ensure the completeness of the signals of the key signal wires; and manufactured and released under stringent quality control plans. With the help of this detailed manual, users are supposed to become proficient in the development process of embedded Linux and WinCE operating system, they are supposed to get the foundation, so long as they have obtained the basic and necessary knowledge about the C language, in two weeks.

SPECIFICATION

CPU
* Samsung S3C2440A, 400MHz Main frenquency,
  533Mhz Peak Frequency

SDRAM
* 64M SDRAM on board
* 32 bit data bus
* SDRAM clock frequency can reach upto 100MHz

Flash Memory
* 256M Nand Flash on board, nonvolatile
* 2M Nor Flash on board, nonvolatile

LCD Module
* Model: AT070TN83 (the number of screen)
* Manufacturer: Innolux
* Resolution: 800x480
* Backlight: LED backlight
* Color RGB: 6-6-6 (26K colors)
* Visual regional dimensions: 152.4 X 91.44 mm
* Outline dimension: 165X104X5.5 (mm)
* Weight: 130g

Touch Panel
* 4-Wires Resistive Touch Panel

Interfaces and Resources
* One 100M Ethernet RJ-45 interface
  (DM9000 ethernet chip adopted)
* 3 serial ports
* 4 USB Host
* One USB Slave (B-type interface)
* One SD card interface
* One stereo audio output interface, one MIC interface
* One 10pin (2.0mm space) JTAG interface
* 4 user LEDs
* 6 user buttons
* One PWM control buzzer
* One adjustable resistance, used for AD conversion test
* One I2C bus AT24C08 chip, used for I2C bus test
* One 20pin (2.0mm space) camera interface
* RTC battery on board
* Power supply interface, with switch and indicator

System clock source
* 12MHz passive crystal

RTC
* Internal real time clock, battery backed

Expansion interfaces
* One 34pin 2.0mm GPIO interface
* One 40pin 2.0mm system bus interface

Dimension
MICRO2440-STAMP 63 x 52mm
MICRO2440-SDK 180 x 130mm

OS
* Linux 2.6.13
* Linux 2.6.29
* WindowsCE.NET 5.0

CD Contents
* Os Installation Guide
* User Manual (Chinese)
* Other Software Tools

Product Contents
- MICRO2440 Board + TFT LCD 7.0" with Touch Screen
- Software Tool CD
- USB Cable
- Ethernet cable (cross link)
- RS-232 cable
- JTAG board with 10 pins cable (for H-JTAG)
- Adaptor 5V/2A