

MICRO 2440 Friendly ARM

MICRO2440+LCD7.0



MICRO2440+LCD3.5



micro2440 introduce

CPU

- Samsung S3C2440A 400MHz, Max freq. 533Mhz

SDRAM

- 64MB SDRAM
- 32bits Data Bus width
- 100MHz Clock

Flash

- 64MB Nand Flash,
- 2MB Nor Flash, BIOS installed

LCD

- 4 wire resistive touch screen interface
- Up to 4096 color STN, 3.5 inches to 12.1 inches, up to 1024x768 pixels
- Up to 64K color TFT, 3.5 inches to 12.1 inches, up to 1024x768 pixels
- In box Innolux 256K color 800x480/7.0 inches TFT screen, with touch screen

Interface and Resource

- 1 10/100M Ethernet RJ-45(DM9000)
- 3 Serial Ports(1 RS232 with CTS and RTS)
- 1 USB Host
- 1 USB Slave Type B

- 1 SD Card Interface
- 1 Stereo audio out, 1 Micro In
- 1 10-Pin JTAG
- 4 USER LEDs
- 6 USER buttons
- 1 PWM Beeper
- 1 POT can be used for A/D converter adjust
- 1 AT24C08 for I2C test
- 1 20-Pin Camera Interface
- 1 Battery for RTC
- Power In(5V), with switch and lamp

Oscillator Freq.

- 12MHz

RTC

- Internal

Expand Interface

- 1 34-Pin 2.0mm GPIO
- 1 40-Pin 2.0mm System Bus

Dimension

- 100 x 100(mm)

OS Support

- Linux 2.6.13
- Windows CE.Net 5.0

2. Content List:

- (1) 1 S3C2440 board (Preload with Linux)
- (2) 1 Serial cable
- (3) 1 Net cable
- (4) 1 USB cable
- (5) 5V power adapter
- (6) 1 JTAG board(for H-JTAG)
- (7) 1 DVD-ROM with product reference
- (8) 1 Innolux LCD: 7.0", 800x480, with touch panel

3. Material list on DVD-ROM

- (1) H-JTAG Debugger
- (2) Windows Flash Programmer SJF2440
- (3) Linux Nand Flash Programmer Jflash-2440(source code included)
- (4) Serial tool CRT, dnw
- (5) Bitmap to C Language transfer tool
- (6) USB Driver(WindowXP/2000)
- (7) vivi source code(linux bootloader)

(8) LED test program(ADS1.20 project)

(9) 2440test program(ADS1.20 project), include :

key test, RTC test, ADC test, IIS Audio play(wav), IIS Audio record,

touch screen test, I2C test, Samsung 3.5"LCD, 640x480 TFT test

(10) WindowsCE BSP and sample project files.

(11) Pre-compiled Win CE image for evaluation

(12) Linux tool and kernel source codes

- arm-linux-gcc-3.3.2 to compile Qtopia

- arm-linux-gcc-3.4.1 to compile kernel

- arm-linux-gcc-2.95.3 to compile vivi

- yaffs file system image maker -mkyaffsimage

- linux-2.6.13 for S3C2440 kernel source code(include DM9000, LCD driver, Audio,

Touch screen, YAFFS Source code, SD Card, RTC, Expand serial driver,

USB Camera,USB Mouse and Keyboard, U-Disk)

(13) Pre-compiled Linux image for evaluation

(14) Qtopia source codes, web browser source codes

(15) Schematics(Protel99SE/PDF)

- **Samsung's S3C2440, Operating frequency 400MHz @1.8V**
- **Supporting image manipulation project based 31 series USB camera of [Vimicro](#)**
- **Supporting three kinds of GUIs, they are QT, MiniGUI, OpieGUI**
- **System parameter can be saved in regedit, and the residual Flash can be read and wrote**
- **Display your Logo during sysytem sartup**
- **The system can be updated through USB port**
- **Supporting Linux 2.6 and WinCE 5.0**

Features	
Daughter-Board	
Items	Details
Dimensions	100 x 80mm
Processor	Samsung S3C2440, Operating frequency 400MHz @1.8V
Memory	64MB SDRAM, 64MB NandFlash 2M NOR FLASH
Expansion Connector	24-bit address signal, 16-bit data signal, GPIOs and so on
Mother-Board	
Interfaces	Details
Ethernet	10/100Mbps
TFT-LCD	up to 1024 x 768/18bit is supported
Touch ADC	Four-channel 10-bit ADC
USB port	One host and one device
COMs	One five-wire RS232 com, two three-wire RS232 com
Audio	input and output slots
RTC	with a backup battery
JTAG	20-pin
LEDs	Four programmable leds
Keypad	4 programmable keypad
SD card	a standard SD card slot
IrDA	on-board module, with
Camera	8-bit
OS	Windows CE 5.0(BSP), (all are source code) Linux 2.6, Yaffs file-system, (all are source code)

Order Information

Order No.	MH8
Item	2440 ARM Board Computer
Hardware	2440 Board
Softwre and Documents	<ul style="list-style-type: none"> • software (Linux2.6) • user manual • parts datasheet
Others	<ul style="list-style-type: none"> • One A/B type USB cable • One serial RS232 cable • One cross Ethernet cable • One EasyICE JTAGICE • One +12V/2A Power with cable • CD-ROM, including Linux codes, tools, user manuals •