



ILUM2440

User Manual

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Hardware Features

- ARM9 CPU (Samsung s3c2440 - ARM920t)
- 64MB of SDRAM 100MHz
- 256MB of NAND-Flash
- TFT LCD support (3.5, 4.3, 5.0, 5.6, 7.0, 8.0, 9.0, 10.4) inch
- VGA Output (640x480, 800x600, 1024x768 for winCE)
- 4-Wire resistive Touchscreen
- x4 USB Ports
- Sound (MIC and stereo Phone)
- Ethernet 100/10Mbps
- USB Device port
- X3 UART ports (x1 5-Wire, x2 3-Wire)
- x1 RS485 (Multiplex with a 3-Wire UART)
- Buzzer
- X4 User Push Button as interrupt
- X4 User LED
- Digital Camera Interface
- EEPROM
- RTC with backup battery
- x1 I2C port
- x1 SPI port
- x1 SD/MMC card reader (Replaceable with Micro SD)
- x2 Timers outputs or PWM lines (Multiplex with GPIO)
- x4 ADC 500KSPS 10bit resolution
- x33 GPIO:
 - x6 Multiplex with Interrupt lines
 - x6 IO
 - x2 Multiplex I2C
 - x12 Multiplex UARTs
 - x4 Multiplex with SPI
 - x3 Multiplex with Timers outputs

Software Features

- WINCE 6.0
- Linux (kernel 2.6.30.4)
- BIOS with easy upgrade futures (Update from SD card for Both Linux and WinCE)
- Auto burning future when you have no serial terminal to see the board's log.
- Easy LCD Selection without rebuild Images (Check BIOS Futures)
- Deploy and debug directly from PC
 - Active sync for WinCE using USB Device
 - Qt Creator for Linux using Ethernet
- Complete OS (WinCE, Linux) with many useful drivers by default.
- Development tools and sources on VM for free.
- Sources and sample codes for driver's usage.

Note: some drivers are not open source. Contact us for details.

- Sources and sample codes for driver's usage.
- Open source Carrier PCB file.

Power Characteristics

- +5v DC
- 350mA average current without LCD (Min: 250mA, Max: 500mA)
- A (+5v DC) 2.0A supply adopter is recommended.