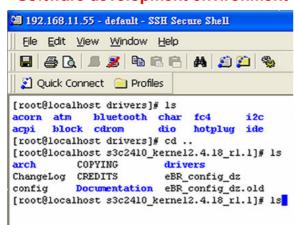


# Create your own 6 inch EBOOK reader device with Electronic Paper Display !!!



#### Software development environment



# E-Book Reader Device Development Kit

PVI's complete development solution kit is available for Product Design Engineers utilizing the E-Book Device System. They can write software applications with the E-Book reader device and also have hands-on access to the electronic paper display (EPD) which is integrated in the E-Book device system. This kit accelerates your time-to-market because you can develop your device quickly.

The development kit includes a 6" SVGA(800x600) Active Matrix display with high resolution, easy-to-read, low-power function. The kit can be used for software and hardware development.

#### The development kit includes:

- Samsung S3C2410 (ARM9 SOC chip) as host CPU
- Linux 2.4.18 OS ported on Samsung S3C2410
- Linux development environment on Samsung S3C2410 is included
- Nano-X window API ported on Linux OS
- Electronic Display Panel
   For more details, refer to the following page.

#### **Electronic Paper Display Benefits**

- Paper-like readability
- Sunlight and non-uniform light visibility
- ♦ High reflectivity , high contrast & resolution
- ◆ Viewing angle ~180 degree
- Ultra Low Power Consumption
- Long-term Bi-stable Image content preserved without power
- Prolonged battery life





# **Display Module Specifications**

# **Optical**

White State reflectivity: 30%(typical)
Contrast Ratio: : 8:1 (typical)
Viewing Angle : >70 degree

Grayscale Capability: 2 bit Switching speed: 500ms

Colors : Black & White

#### Mechanical / Dimensional

Resolution : 800x600(SVGA) Pixel Pitch : 0.151(h)x0.153(v)

Pixel Configuration :Rectangle

Active Area : 90.6x122.4mm(6")

Display THK : 1.5mm
Display Weight : 35g
Backlight :none

# **Environmental**

Operating Temperature Range:0~50C Storage Temperature Range:-25~70C

#### Interface

Supply Voltage : 3.0V

# **E-book Device Kit Components Specification**

# Display subsystem

Production sample active matrix EPD display Multi-function Display controller

#### **Host system**

Samsung S3C2410 processor Linux Operating system pre-installed

Multiple input-output option, USB, Serial SD

card reader (512MB card Included)

# **Power supply**

Universal power adapter

#### **Software**

Demonstration e-book application Display driver software gcc PC-to-S3C2410 cross-compiler and

gcc PC-to-S3C2410 cross-compiler and development environment Source code for

all software

# **Documentation and support**

Getting Started Guide and Manual On-line support and user's group

For more information, please contact:

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Please note that all specifications are subject to change without prior notice.