



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



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

Software development environment

```
192.168.11.55 - default - SSH Secure Shell
File Edit View Window Help
Quick Connect Profiles
[root@localhost drivers]# ls
acorn atm bluetooth char fc4 i2c
acpi block cdrom dio hotplug ide
[root@localhost drivers]# cd ..
[root@localhost s3c2410_kernel2.4.18_rl.1]# ls
arch COPYING drivers
ChangeLog CREDITS eBR_config_dz
config Documentation eBR_config_dz.old
[root@localhost s3c2410_kernel2.4.18_rl.1]# ls
```



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
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.

