

1.4 Linux Characteristic

Version

- Linux 2.6.29

File System Support

- Yaffs2 (file system recommended for read-write)
- Cramfs (compressed file system recommended for read-only, not online to update)
- Ext2
- Fat32
- NFS (network file system, easy for driver and application development)

Basic Driver (the following drivers are provided source code)

- 3 serial standard driver
- DM9000 driver
- Audio driver (UDA1341) (recordable)
- RTC driver (which can save time when power-down time)
- User-driven LED lights
- USB Host driver
- True color LCD driver (including driver for 1024x768VGA)
- Touchscreen driver
- The universal USB camera driver
- Mouse, Keyboard, and Mobile hard disk USB driver
- SD card driver that supports high-speed SD card, the maximum capacity of up to 32G
- I2C-EEPROM
- PWM control buzzer
- LCD backlight driver
- A/D converter driver
- Watchdog driver (equivalent to cold reset watchdog reset)

Linux Applications and Services Procedures

- Busybox 1.13 (Linux tool set, including the common Linux commands, etc.)
- Telnet, ftp, inetd (telnet network tools and services)
- Boa (Web Server)
- Madplay (console-based mp3 player)
- Snapshot (console-based capture software)
- Ifconfig, ping, route, etc. (web-based tools commonly used order)

Platform Embedded Graphics System (source code provided)

- Qt/Embedded 2.2 divided into 2 versions for x86 and ARM

Qtopia Practical Test Procedure

Description: The following procedures are an independent on the development of FriendlyARM, do not provide the source code.

- A/D Converter Test
- LED Control
- Buttons Test
- I2C-EEPROM Read and Write Test
- LCD Test
- Ping Test
- Universal USB Camera free driver dynamic preview and take pictures
- Tape Recorder
- Web Browser
- Watchdog Test
- Network Settings (parameters can be stored)
- Backlight Control
- Language Setting: can be set in English and Chinese
- Ready to Write: The pen used to test the accuracy of touch
- MMC/SD cards and USB auto-mount and unmount