SD card interface to download instructions

1. Processing steps:

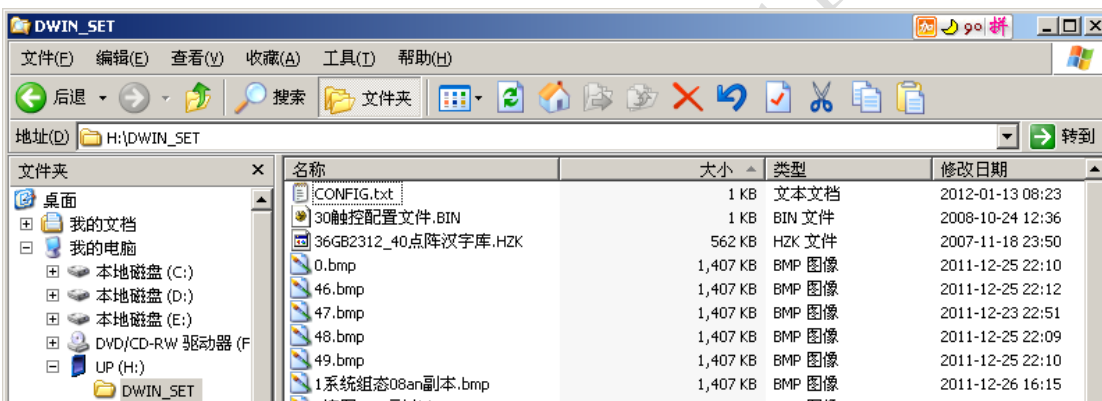i.　DWIN screen power-off, then insert SD card(K600+ support SD card hot-swappable)；

ii.　Re-power on DWIN screen, then the DWIN screen will automatically load the content of DWIN_SET folder in SD card, and save it to the screen within the FLASH.

iii.　DWIN screen update is complete. It will automatically reset to reboot and enter the normal operating mode. At this time, the user can remove the SD card.

NOTE:

　　　　During the process of download, the display may be abnormal. The backlight may be blinking or accompanied by the sound of some of "Zizi". But this is a normal phenomenon and does not impact DWIN screen hardware and software perfomance.

2. File Format Description

i.　To establish DWIN_SET folder in the SD card root directory；

ii.　The pictures, fronts and configuration files which need download are placed in the DWIN_SET folder, as shown below:

SD card file format instruction			
File type	Naming rules	For example	Instruction
Picture file	The location of image storage+（optional）file name.BMP	00 boot interface .BMP	Must be the same as DWIN screen resolution 24-bit color BMP files
Font file	The location of font storage+（optional）file name.BIN/HZK/DZK/ICO	32_GBK12 Chinese font.DZK; 30 touch file.BIN; 0DWINASC.HZK; 038 icon library.ICO	
Configuration file	CONFIG.TXT		

CONFIG.TXT configuration file instruction

　　　　CONFIG.TXT file is used to configure the DWIN screen mode (corresponding to the 0XE0 command) and backlight mode (corresponding to the 0x5E command).

　　　　CONFIG.TXT file of similar scripting language used to describe the parameter registers. Each line describe has one parameter. The unused parameters cannot write, as follows:

Parameter register name	Range	Instruction
R0	Depends on DWIN screen	The DWIN screen driver mode selection, users don not configure it
R1	0x00-0x10	Boud rate settings, 0x00-0x10 corresponds to 1200bps－921600bps
R2	0x00-0xFF	0xE0 instruction of PARA1
R3	0x00-0xFF	0xE0 instruction of PARA2
R6	0x00-0x40	After starting the backlight by touch screen controlling, backlight light brightness when click on the touch screen
R7	0x00-0x40	After starting the backlight by touch screen controlling,a period of time do not click on the touch screen, the backlight light brightness
R8	0x01-0xFF	After starting the backlight by touch screen controlling,the time of touch screen backlight lit, unit is 0.5 seconds
The parameter of configuration file is one byte HEX mdoe, such as 0A represents decimal 10; the parameter of configuration file must be 2 bits, such as 00 cannot be written as 0.		

A typical users configuration file

R1=07   ;baud rate，07=115200bps

R2=30   ;PARA1，30=enable touch, backlight brightness switch is controlled by clicking touch screen

R6=40   ;On the touch screen backlight automatically control mode, the brightness of backlight lit, 40=100% brightness (brightest)

R7=10   ;On the touch screen backlight automatically control mode, the brightness of backlight turns off, 10=25% brightness

R8=14   ;the time of backlight, unit is 0.5 seconds, 14=10 seconds