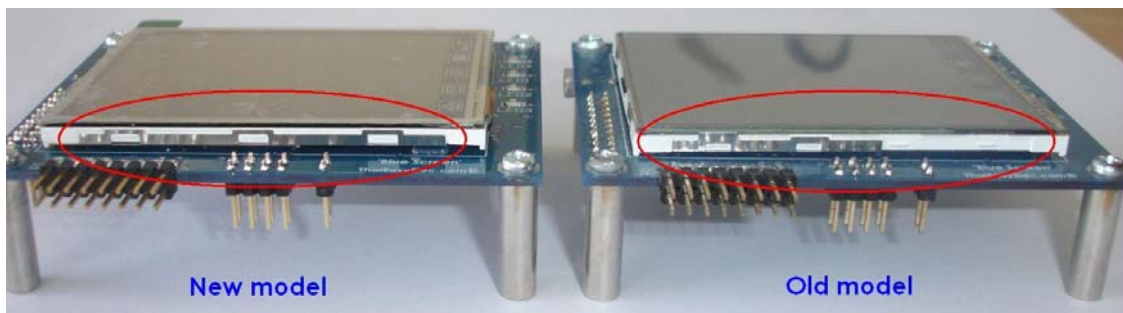


Application Note ANBS1.00.03 [Issued date November 15, 2008]

LCD driver migrating from ILI9320 to ILI9325

Since November 2008, the LCD installed on Blue Screen has been changed from model ELT240320TP to model ELT240320ATP. To identify a model, see picture below.



These two models have a major different on the LCD controller. The old one, ELT240320TP comes with ILI9320 and the new one, ELT240320ATP comes with ILI9325. The only change on software in the example code is its initial codes. Anyway, in order to supply the codes which support both models of LCD, the driver code has to be read before sending those initial commands. The initial function, **TSLCDInit()** is modified.

```
unsigned short driver_code;
delay_1ms(100);

TSLCDOutIns(TS_INS_START_OSC); //to read driver code
driver_code = TSLCDInDat();
if (driver_code == 0x9320) //ILI9320
{
    ... //old initial codes
}
if (driver_code == 0x9325) //ILI9325
{
```

```
... //initial codes for new model  
}
```

Please download the full source code at our website. The version of LCD driver which support both models of LCD is [tslcd_elt240320tp_v1_20.c](#) .

In addition, the polarity of touch screen signals (XL XR YU YD) is different on these two models. This can be ignored since the calibration algorithm supports both behaviors. There the parameters will be automatically generated in plus or minus value thus users don't have to care about them.