

**a-Si TFT LCD Single Chip Driver with
240RGBx320 Resolution and 262K color**

Application Notes

Version: Preliminary V0.5

Date: Jan., 5th, 2007

ILI TECHNOLOGY CORP.

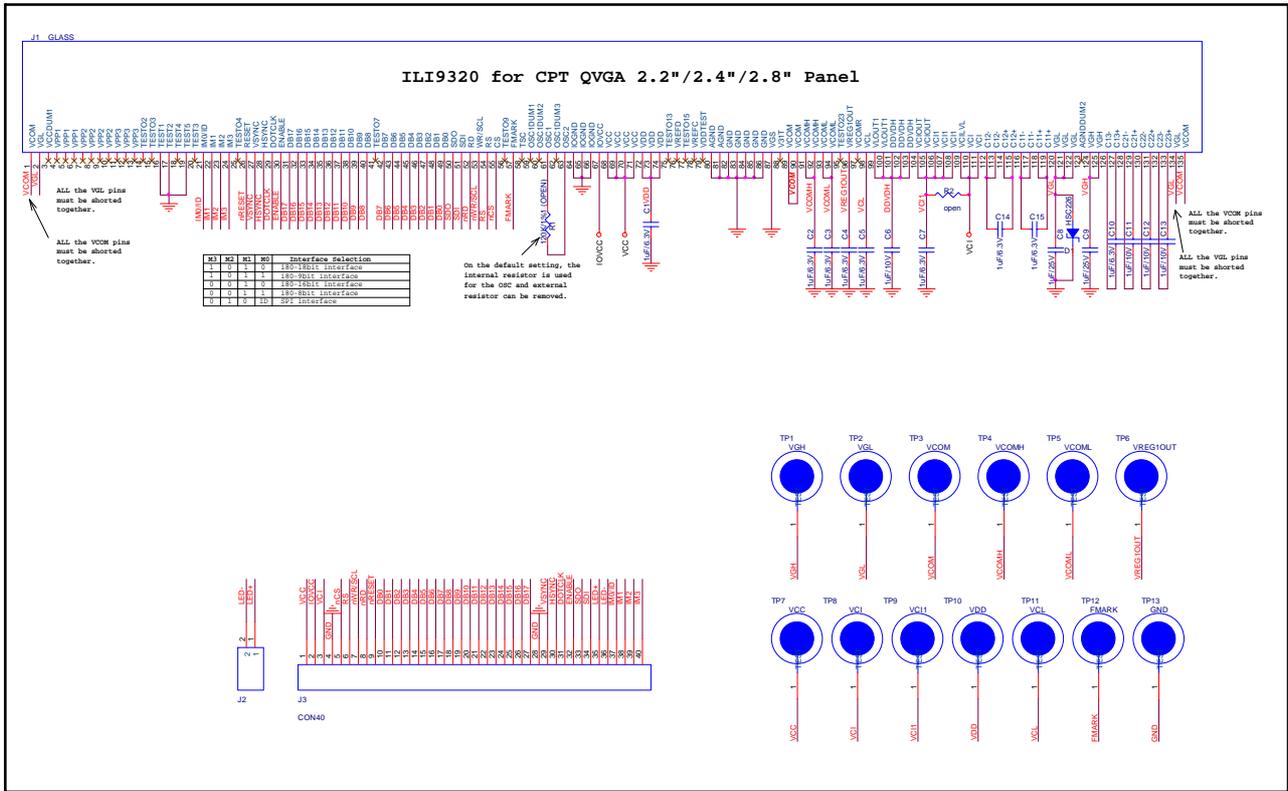
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1. Application FPC Circuit

1.1. CPT 2.4" & 2.8" Panel



void ILI9320_CPT24_Initial(void)

```
{
// VCI=2.8V
//***** Reset LCD Driver *****//
LCD_nRESET = 1;
    delaysms(1); // Delay 1ms
LCD_nRESET = 0;
    delaysms(10); // Delay 10ms           // This delay time is necessary
LCD_nRESET = 1;
    delaysms(50); // Delay 50 ms

//***** Start Initial Sequence *****//

LCD_CtrlWrite_ILI9320(0x00E5, 0x8000); // Set the Vcore voltage and this setting is must.
LCD_CtrlWrite_ILI9320(0x0000, 0x0001); // Start internal OSC.
LCD_CtrlWrite_ILI9320(0x0001, 0x0100); // set SS and SM bit
LCD_CtrlWrite_ILI9320(0x0002, 0x0700); // set 1 line inversion
LCD_CtrlWrite_ILI9320(0x0003, 0x1030); // set GRAM write direction and BGR=1.
LCD_CtrlWrite_ILI9320(0x0004, 0x0000); // Resize register

LCD_CtrlWrite_ILI9320(0x0008, 0x0202); // set the back porch and front porch
LCD_CtrlWrite_ILI9320(0x0009, 0x0000); // set non-display area refresh cycle ISC[3:0]
LCD_CtrlWrite_ILI9320(0x000A, 0x0000); // FMARK function
LCD_CtrlWrite_ILI9320(0x000C, 0x0000); // RGB interface setting
LCD_CtrlWrite_ILI9320(0x000D, 0x0000); // Frame marker Position
LCD_CtrlWrite_ILI9320(0x000F, 0x0000); // RGB interface polarity

//*****Power On sequence *****//
LCD_CtrlWrite_ILI9320(0x0010, 0x0000); // SAP, BT[3:0], AP, DSTB, SLP, STB
LCD_CtrlWrite_ILI9320(0x0011, 0x0007); // DC1[2:0], DC0[2:0], VC[2:0]
LCD_CtrlWrite_ILI9320(0x0012, 0x0000); // VREG1OUT voltage
LCD_CtrlWrite_ILI9320(0x0013, 0x0000); // VDV[4:0] for VCOM amplitude
    delaysms(200); // Dis-charge capacitor power voltage
LCD_CtrlWrite_ILI9320(0x0010, 0x17B0); // SAP, BT[3:0], AP, DSTB, SLP, STB
LCD_CtrlWrite_ILI9320(0x0011, 0x0037); // R11h=0x0031 at VCI=3.3V DC1[2:0], DC0[2:0], VC[2:0]
    delaysms(50); // Delay 50ms
LCD_CtrlWrite_ILI9320(0x0012, 0x013C); // R12h=0x0138 at VCI=3.3V VREG1OUT voltage
    delaysms(50); // Delay 50ms
LCD_CtrlWrite_ILI9320(0x0013, 0x1C00); // R13h=0x1800 at VCI=3.3V VDV[4:0] for VCOM amplitude
LCD_CtrlWrite_ILI9320(0x0029, 0x000E); // R29h=0x0008 at VCI=3.3V VCM[4:0] for VCOMH
    delaysms(50);
LCD_CtrlWrite_ILI9320(0x0020, 0x0000); // GRAM horizontal Address
LCD_CtrlWrite_ILI9320(0x0021, 0x0000); // GRAM Vertical Address

// ----- Adjust the Gamma Curve -----//
LCD_CtrlWrite_ILI9320(0x0030, 0x0000);
LCD_CtrlWrite_ILI9320(0x0031, 0x0505);
LCD_CtrlWrite_ILI9320(0x0032, 0x0004);

LCD_CtrlWrite_ILI9320(0x0035, 0x0006);
LCD_CtrlWrite_ILI9320(0x0036, 0x0707);
LCD_CtrlWrite_ILI9320(0x0037, 0x0105);
LCD_CtrlWrite_ILI9320(0x0038, 0x0002);
LCD_CtrlWrite_ILI9320(0x0039, 0x0707);

LCD_CtrlWrite_ILI9320(0x003C, 0x0704);
LCD_CtrlWrite_ILI9320(0x003D, 0x0807);
}
```

```
//----- Set GRAM area -----//
LCD_CtrlWrite_ILI9320(0x0050, 0x0000); // Horizontal GRAM Start Address
LCD_CtrlWrite_ILI9320(0x0051, 0x00EF); // Horizontal GRAM End Address
LCD_CtrlWrite_ILI9320(0x0052, 0x0000); // Vertical GRAM Start Address
LCD_CtrlWrite_ILI9320(0x0053, 0x013F); // Vertical GRAM Start Address

LCD_CtrlWrite_ILI9320(0x0060, 0x2700); // Gate Scan Line
LCD_CtrlWrite_ILI9320(0x0061, 0x0001); // NDL, VLE, REV
LCD_CtrlWrite_ILI9320(0x006A, 0x0000); // set scrolling line

//----- Partial Display Control -----//
LCD_CtrlWrite_ILI9320(0x0080, 0x0000);
LCD_CtrlWrite_ILI9320(0x0081, 0x0000);
LCD_CtrlWrite_ILI9320(0x0082, 0x0000);
LCD_CtrlWrite_ILI9320(0x0083, 0x0000);
LCD_CtrlWrite_ILI9320(0x0084, 0x0000);
LCD_CtrlWrite_ILI9320(0x0085, 0x0000);

//----- Panel Control -----//
LCD_CtrlWrite_ILI9320(0x0090, 0x0010);
LCD_CtrlWrite_ILI9320(0x0092, 0x0000);
LCD_CtrlWrite_ILI9320(0x0093, 0x0003);
LCD_CtrlWrite_ILI9320(0x0095, 0x0110);
LCD_CtrlWrite_ILI9320(0x0097, 0x0000);
LCD_CtrlWrite_ILI9320(0x0098, 0x0000);
LCD_CtrlWrite_ILI9320(0x0007, 0x0173); // 262K color and display ON
}

void LCD_ExitSleep_ILI9320(void)
{
//*****Power On sequence *****//
LCD_CtrlWrite_ILI9320(0x0010, 0x0000); // SAP, BT[3:0], AP, DSTB, SLP
LCD_CtrlWrite_ILI9320(0x0011, 0x0000); // DC1[2:0], DC0[2:0], VC[2:0]
LCD_CtrlWrite_ILI9320(0x0012, 0x0000); // VREG1OUT voltage
LCD_CtrlWrite_ILI9320(0x0013, 0x0000); // VDV[4:0] for VCOM amplitude
    delays(200); // Dis-charge capacitor power voltage
LCD_CtrlWrite_ILI9320(0x0010, 0x17B0); // SAP, BT[3:0], AP, DSTB, SLP, STB
LCD_CtrlWrite_ILI9320(0x0011, 0x0037); // R11h=0x0031 at VCI=3.3V DC1[2:0], DC0[2:0], VC[2:0]
    delays(50); // Delay 50ms
LCD_CtrlWrite_ILI9320(0x0012, 0x013C); // R12h=0x0138 at VCI=3.3V VREG1OUT voltage
    delays(50); // Delay 50ms
LCD_CtrlWrite_ILI9320(0x0013, 0x1C00); // R13h=0x1800 at VCI=3.3V VDV[4:0] for VCOM amplitude
LCD_CtrlWrite_ILI9320(0x0029, 0x000E); // R29h=0x0008 at VCI=3.3V VCM[4:0] for VCOMH
    delays(50);
LCD_CtrlWrite_ILI9320(0x0007, 0x0173); // 262K color and display ON
}

void LCD_EnterSleep_ILI9320(void)
{
LCD_CtrlWrite_ILI9320(0x0007, 0x0000); // display OFF
//***** Power OFF sequence *****//
LCD_CtrlWrite_ILI9320(0x0010, 0x0000); // SAP, BT[3:0], APE, AP, DSTB, SLP
LCD_CtrlWrite_ILI9320(0x0011, 0x0000); // DC1[2:0], DC0[2:0], VC[2:0]
LCD_CtrlWrite_ILI9320(0x0012, 0x0000); // VREG1OUT voltage
LCD_CtrlWrite_ILI9320(0x0013, 0x0000); // VDV[4:0] for VCOM amplitude
    delays(200); // Dis-charge capacitor power voltage
LCD_CtrlWrite_ILI9320(0x0010, 0x0002); // SAP, BT[3:0], APE, AP, DSTB, SLP
}

```

void ILI9320_CPT28_Initial(void)

```
{
// VCI=2.8V
//***** Reset LCD Driver *****/
LCD_nRESET = 1;
    delaysms(1); // Delay 1ms
LCD_nRESET = 0;
    delaysms(10); // Delay 10ms
LCD_nRESET = 1;
    delaysms(50); // Delay 50 ms

//***** Start Initial Sequence *****/

LCD_CtrlWrite_ILI9320(0x00E5, 0x8000); // Set the internal vcore voltage
LCD_CtrlWrite_ILI9320(0x0000, 0x0001); // Start internal OSC.
LCD_CtrlWrite_ILI9320(0x0001, 0x0100); // set SS and SM bit
LCD_CtrlWrite_ILI9320(0x0002, 0x0700); // set 1 line inversion
LCD_CtrlWrite_ILI9320(0x0003, 0x1030); // set GRAM write direction and BGR=1.
LCD_CtrlWrite_ILI9320(0x0004, 0x0000); // Resize register

LCD_CtrlWrite_ILI9320(0x0008, 0x0202); // set the back porch and front porch
LCD_CtrlWrite_ILI9320(0x0009, 0x0000); // set non-display area refresh cycle ISC[3:0]
LCD_CtrlWrite_ILI9320(0x000A, 0x0000); // FMARK function
LCD_CtrlWrite_ILI9320(0x000C, 0x0000); // RGB interface setting
LCD_CtrlWrite_ILI9320(0x000D, 0x0000); // Frame marker Position
LCD_CtrlWrite_ILI9320(0x000F, 0x0000); // RGB interface polarity

//*****Power On sequence *****/
LCD_CtrlWrite_ILI9320(0x0010, 0x0000); // SAP, BT[3:0], AP, DSTB, SLP, STB
LCD_CtrlWrite_ILI9320(0x0011, 0x0007); // DC1[2:0], DC0[2:0], VC[2:0]
LCD_CtrlWrite_ILI9320(0x0012, 0x0000); // VREG1OUT voltage
LCD_CtrlWrite_ILI9320(0x0013, 0x0000); // VDV[4:0] for VCOM amplitude
    delaysms(200); // Dis-charge capacitor power voltage

LCD_CtrlWrite_ILI9320(0x0010, 0x17B0); // SAP, BT[3:0], AP, DSTB, SLP, STB
LCD_CtrlWrite_ILI9320(0x0011, 0x0037); // DC1[2:0], DC0[2:0], VC[2:0]
    delaysms(50); // Delay 50ms
LCD_CtrlWrite_ILI9320(0x0012, 0x013A); // VREG1OUT voltage
    delaysms(50); // Delay 50ms
LCD_CtrlWrite_ILI9320(0x0013, 0x1600); // VDV[4:0] for VCOM amplitude
LCD_CtrlWrite_ILI9320(0x0029, 0x000C); // VCM[4:0] for VCOMH
    delaysms(50);

LCD_CtrlWrite_ILI9320(0x0020, 0x0000); // GRAM horizontal Address
LCD_CtrlWrite_ILI9320(0x0021, 0x0000); // GRAM Vertical Address

// ----- Adjust the Gamma Curve -----//
LCD_CtrlWrite_ILI9320(0x0030, 0x0504);
LCD_CtrlWrite_ILI9320(0x0031, 0x0703);
LCD_CtrlWrite_ILI9320(0x0032, 0x0702);
LCD_CtrlWrite_ILI9320(0x0035, 0x0101);
LCD_CtrlWrite_ILI9320(0x0036, 0x0A1F);
LCD_CtrlWrite_ILI9320(0x0037, 0x0504);
LCD_CtrlWrite_ILI9320(0x0038, 0x0003);
LCD_CtrlWrite_ILI9320(0x0039, 0x0706);
LCD_CtrlWrite_ILI9320(0x003C, 0x0707);
LCD_CtrlWrite_ILI9320(0x003D, 0x091F);

//----- Set GRAM area -----//
```

```

LCD_CtrlWrite_ILI9320(0x0050, 0x0000); // Horizontal GRAM Start Address
LCD_CtrlWrite_ILI9320(0x0051, 0x00EF); // Horizontal GRAM End Address
LCD_CtrlWrite_ILI9320(0x0052, 0x0000); // Vertical GRAM Start Address
LCD_CtrlWrite_ILI9320(0x0053, 0x013F); // Vertical GRAM Start Address

LCD_CtrlWrite_ILI9320(0x0060, 0x2700); // Gate Scan Line
LCD_CtrlWrite_ILI9320(0x0061, 0x0001); // ND, VLE, REV
LCD_CtrlWrite_ILI9320(0x006A, 0x0000); // set scrolling line

//----- Partial Display Control -----//
LCD_CtrlWrite_ILI9320(0x0080, 0x0000);
LCD_CtrlWrite_ILI9320(0x0081, 0x0000);
LCD_CtrlWrite_ILI9320(0x0082, 0x0000);
LCD_CtrlWrite_ILI9320(0x0083, 0x0000);
LCD_CtrlWrite_ILI9320(0x0084, 0x0000);
LCD_CtrlWrite_ILI9320(0x0085, 0x0000);

//----- Panel Control -----//
LCD_CtrlWrite_ILI9320(0x0090, 0x0010);
LCD_CtrlWrite_ILI9320(0x0092, 0x0000);
LCD_CtrlWrite_ILI9320(0x0093, 0x0003);
LCD_CtrlWrite_ILI9320(0x0095, 0x0110);
LCD_CtrlWrite_ILI9320(0x0097, 0x0000);
LCD_CtrlWrite_ILI9320(0x0098, 0x0000);

LCD_CtrlWrite_ILI9320(0x0007, 0x0173); // 262K color and display ON
}

```

void LCD_ExitSleep_ILI9320(void)

```

{
//*****Power On sequence *****//
LCD_CtrlWrite_ILI9320(0x0010, 0x0000); // SAP, BT[3:0], AP, DSTB, SLP
LCD_CtrlWrite_ILI9320(0x0011, 0x0000); // DC1[2:0], DC0[2:0], VC[2:0]
LCD_CtrlWrite_ILI9320(0x0012, 0x0000); // VREG1OUT voltage
LCD_CtrlWrite_ILI9320(0x0013, 0x0000); // VDV[4:0] for VCOM amplitude
    delays(200); // Dis-charge capacitor power voltage
LCD_CtrlWrite_ILI9320(0x0010, 0x17B0); // SAP, BT[3:0], AP, DSTB, SLP, STB
LCD_CtrlWrite_ILI9320(0x0011, 0x0037); // DC1[2:0], DC0[2:0], VC[2:0]
    delays(50); // Delay 50ms
LCD_CtrlWrite_ILI9320(0x0012, 0x013A); // VREG1OUT voltage
    delays(50); // Delay 50ms
LCD_CtrlWrite_ILI9320(0x0013, 0x1600); //VDV[4:0] for VCOM amplitude
LCD_CtrlWrite_ILI9320(0x0029, 0x000C); //VCM[4:0] for VCOMH
    delays(50);
LCD_CtrlWrite_ILI9320(0x0007, 0x0173); // 262K color and display ON
}

```

void LCD_EnterSleep_ILI9320(void)

```

{
LCD_CtrlWrite_ILI9320(0x0007, 0x0000); // display OFF
//***** Power OFF sequence *****//
LCD_CtrlWrite_ILI9320(0x0010, 0x0000); // SAP, BT[3:0], APE, AP, DSTB, SLP
LCD_CtrlWrite_ILI9320(0x0011, 0x0000); // DC1[2:0], DC0[2:0], VC[2:0]
LCD_CtrlWrite_ILI9320(0x0012, 0x0000); // VREG1OUT voltage
LCD_CtrlWrite_ILI9320(0x0013, 0x0000); // VDV[4:0] for VCOM amplitude
    delays(200); // Dis-charge capacitor power voltage
LCD_CtrlWrite_ILI9320(0x0010, 0x0002); // SAP, BT[3:0], APE, AP, DSTB, SLP
}

```


void ILI9320_CMO22_Initial(void)

```
{
// VCI=2.8V
//***** Reset LCD Driver *****//
LCD_nRESET = 1;
    delaysms(1); // Delay 1ms
LCD_nRESET = 0;
    delaysms(10); // Delay 10ms          // This delay is necessary
LCD_nRESET = 1;
    delaysms(50); // Delay 50 ms

//***** Start Initial Sequence *****//

LCD_CtrlWrite_ILI9320(0x00E5, 0x8000); // Set the Vcore voltage and this setting is must.
LCD_CtrlWrite_ILI9320(0x0000, 0x0001); // Start internal OSC.
LCD_CtrlWrite_ILI9320(0x0001, 0x0100); // set SS and SM bit
LCD_CtrlWrite_ILI9320(0x0002, 0x0700); // set 1 line inversion
LCD_CtrlWrite_ILI9320(0x0003, 0x0030); // set GRAM write direction and BGR=0.
LCD_CtrlWrite_ILI9320(0x0004, 0x0000); // Resize register

LCD_CtrlWrite_ILI9320(0x0008, 0x0202); // set the back porch and front porch
LCD_CtrlWrite_ILI9320(0x0009, 0x0000); // set non-display area refresh cycle ISC[3:0]
LCD_CtrlWrite_ILI9320(0x000A, 0x0000); // FMARK function
LCD_CtrlWrite_ILI9320(0x000C, 0x0000); // RGB interface setting
LCD_CtrlWrite_ILI9320(0x000D, 0x0000); // Frame marker Position
LCD_CtrlWrite_ILI9320(0x000F, 0x0000); // RGB interface polarity

//*****Power On sequence *****//
LCD_CtrlWrite_ILI9320(0x0010, 0x0000); // SAP, BT[3:0], AP, DSTB, SLP, STB
LCD_CtrlWrite_ILI9320(0x0011, 0x0007); // DC1[2:0], DC0[2:0], VC[2:0]
LCD_CtrlWrite_ILI9320(0x0012, 0x0000); // VREG1OUT voltage
LCD_CtrlWrite_ILI9320(0x0013, 0x0000); // VDV[4:0] for VCOM amplitude
    delaysms(200); // Dis-charge capacitor power voltage
LCD_CtrlWrite_ILI9320(0x0010, 0x17B0); // SAP, BT[3:0], AP, DSTB, SLP, STB
LCD_CtrlWrite_ILI9320(0x0011, 0x0037); // DC1[2:0], DC0[2:0], VC[2:0]
    delaysms(50); // Delay 50ms
LCD_CtrlWrite_ILI9320(0x0012, 0x013E); // VREG1OUT voltage
    delaysms(50); // Delay 50ms
LCD_CtrlWrite_ILI9320(0x0013, 0x1F00); // VDV[4:0] for VCOM amplitude
LCD_CtrlWrite_ILI9320(0x0029, 0x0013); // VCM[4:0] for VCOMH
    delaysms(50);
LCD_CtrlWrite_ILI9320(0x0020, 0x0000); // GRAM horizontal Address
LCD_CtrlWrite_ILI9320(0x0021, 0x0000); // GRAM Vertical Address

// ----- Adjust the Gamma Curve -----//
LCD_CtrlWrite_ILI9320(0x0030, 0x0000);
LCD_CtrlWrite_ILI9320(0x0031, 0x0404);
LCD_CtrlWrite_ILI9320(0x0032, 0x0404);

LCD_CtrlWrite_ILI9320(0x0035, 0x0004);
LCD_CtrlWrite_ILI9320(0x0036, 0x0404);
LCD_CtrlWrite_ILI9320(0x0037, 0x0404);
LCD_CtrlWrite_ILI9320(0x0038, 0x0404);
LCD_CtrlWrite_ILI9320(0x0039, 0x0707);
LCD_CtrlWrite_ILI9320(0x003C, 0x0500);
LCD_CtrlWrite_ILI9320(0x003D, 0x0607);

//----- Set GRAM area -----//
LCD_CtrlWrite_ILI9320(0x0050, 0x0000); // Horizontal GRAM Start Address
```

```
LCD_CtrlWrite_ILI9320(0x0051, 0x00EF); // Horizontal GRAM End Address
LCD_CtrlWrite_ILI9320(0x0052, 0x0000); // Vertical GRAM Start Address
LCD_CtrlWrite_ILI9320(0x0053, 0x013F); // Vertical GRAM Start Address
```

```
LCD_CtrlWrite_ILI9320(0x0060, 0x2700); // Gate Scan Line
LCD_CtrlWrite_ILI9320(0x0061, 0x0001); // NDL, VLE, REV
LCD_CtrlWrite_ILI9320(0x006A, 0x0000); // set scrolling line
```

```
//----- Partial Display Control -----//
```

```
LCD_CtrlWrite_ILI9320(0x0080, 0x0000);
LCD_CtrlWrite_ILI9320(0x0081, 0x0000);
LCD_CtrlWrite_ILI9320(0x0082, 0x0000);
LCD_CtrlWrite_ILI9320(0x0083, 0x0000);
LCD_CtrlWrite_ILI9320(0x0084, 0x0000);
LCD_CtrlWrite_ILI9320(0x0085, 0x0000);
```

```
//----- Panel Control -----//
```

```
LCD_CtrlWrite_ILI9320(0x0090, 0x0010);
LCD_CtrlWrite_ILI9320(0x0092, 0x0000);
LCD_CtrlWrite_ILI9320(0x0093, 0x0003);
LCD_CtrlWrite_ILI9320(0x0095, 0x0110);
LCD_CtrlWrite_ILI9320(0x0097, 0x0000);
LCD_CtrlWrite_ILI9320(0x0098, 0x0000);
LCD_CtrlWrite_ILI9320(0x0007, 0x0173); // 262K color and display ON
```

```
}
```

void LCD_ExitSleep_ILI9320(void)

```
{
```

```
//*****Power On sequence *****//
```

```
LCD_CtrlWrite_ILI9320(0x0010, 0x0000); // SAP, BT[3:0], AP, DSTB, SLP, STB
LCD_CtrlWrite_ILI9320(0x0011, 0x0000); // DC1[2:0], DC0[2:0], VC[2:0]
LCD_CtrlWrite_ILI9320(0x0012, 0x0000); // VREG1OUT voltage
LCD_CtrlWrite_ILI9320(0x0013, 0x0000); // VDV[4:0] for VCOM amplitude
    delays(200); // Dis-charge capacitor power voltage
LCD_CtrlWrite_ILI9320(0x0010, 0x17B0); // SAP, BT[3:0], AP, DSTB, SLP, STB
LCD_CtrlWrite_ILI9320(0x0011, 0x0037); // DC1[2:0], DC0[2:0], VC[2:0]
    delays(50); // Delay 50ms
LCD_CtrlWrite_ILI9320(0x0012, 0x013E); // VREG1OUT voltage
    delays(50); // Delay 50ms
LCD_CtrlWrite_ILI9320(0x0013, 0x1F00); // VDV[4:0] for VCOM amplitude
LCD_CtrlWrite_ILI9320(0x0029, 0x0013); // VCM[4:0] for VCOMH
    delays(50);
LCD_CtrlWrite_ILI9320(0x0007, 0x0173); // 262K color and display ON
```

```
}
```

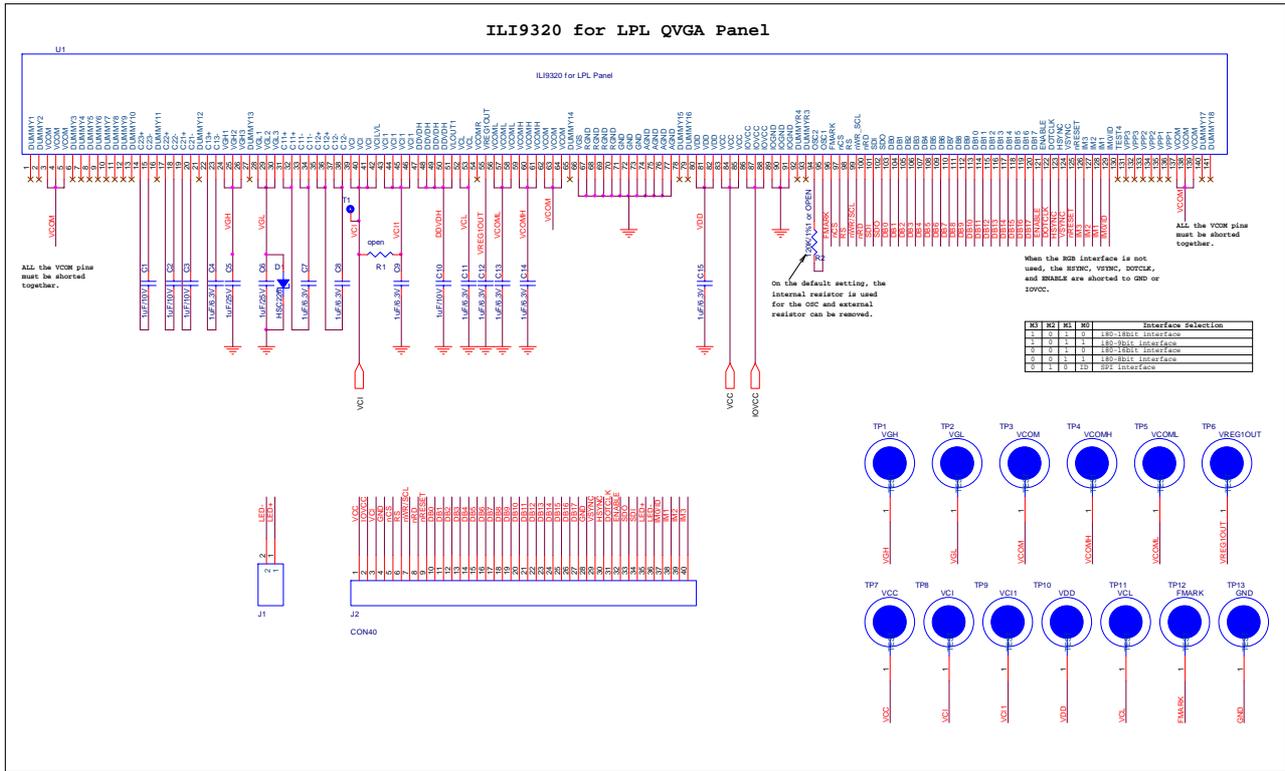
void LCD_EnterSleep_ILI9320(void)

```
{
```

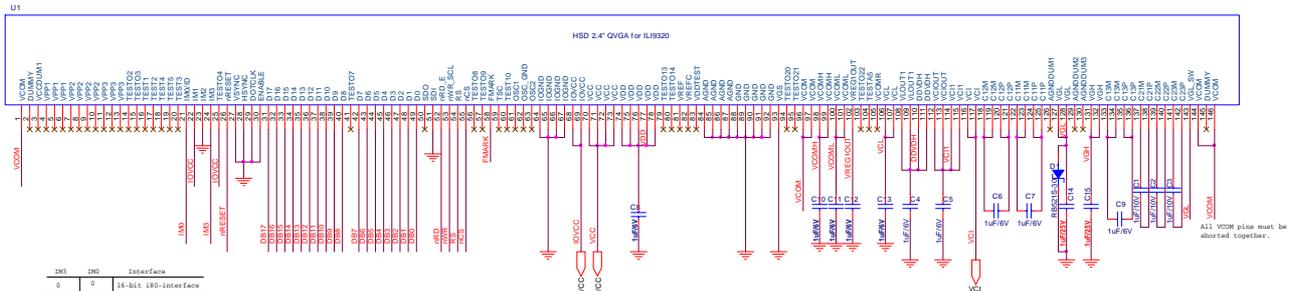
```
LCD_CtrlWrite_ILI9320(0x0007, 0x0000); // display OFF
//***** Power OFF sequence *****//
LCD_CtrlWrite_ILI9320(0x0010, 0x0000); // SAP, BT[3:0], APE, AP, DSTB, SLP
LCD_CtrlWrite_ILI9320(0x0011, 0x0000); // DC1[2:0], DC0[2:0], VC[2:0]
LCD_CtrlWrite_ILI9320(0x0012, 0x0000); // VREG1OUT voltage
LCD_CtrlWrite_ILI9320(0x0013, 0x0000); // VDV[4:0] for VCOM amplitude
    delays(200); // Dis-charge capacitor power voltage
LCD_CtrlWrite_ILI9320(0x0010, 0x0002); // SAP, BT[3:0], APE, AP, DSTB, SLP
```

```
}
```

1.3. LPL2.2" & LPL 2.4" Panel



1.4. Hannstar 2.4" Panel



2. Revision History

Revision History

Version No.	Date	Page	Description
V0.1	2006/11/22		New
V0.2	2006/11/28		Add the Hannstar FPC circuit
V0.4	2007/01/02		Add CPT 2.8" initial code
V0.5	2007/1/5		Modify the Hannstar FPC circuit