

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

**Application Notes**

Version: Preliminary V0.1

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**ILI TECHNOLOGY CORP.**

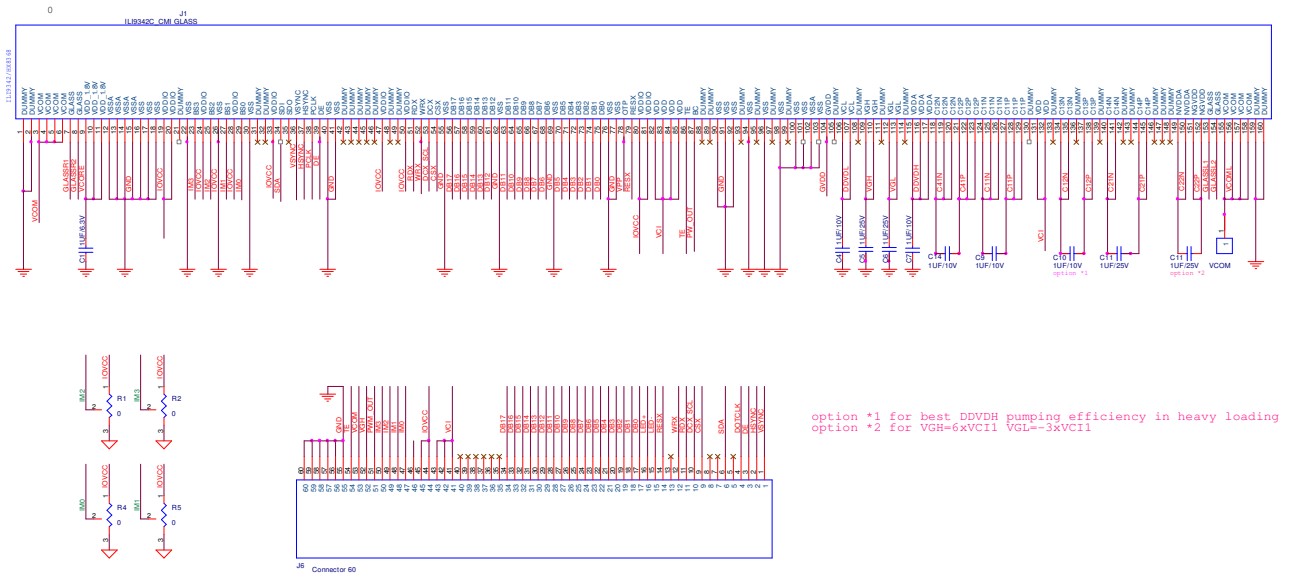
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# 1. CMI 2.36" Panel

## 1.1 FPC Application Circuit



## 1.2 CMI Initial Code

### void ILI9342C\_CMI\_Initial(void)

```
{
// VCI=2.8V
//***** Reset LCD Driver *****//
LCD_nRESET = 1;
delayms(10);                // Delay 10ms
LCD_nRESET = 0;
delayms(10);                // Delay 10ms // This delay time is necessary
LCD_nRESET = 1;
delayms(120);               // Delay 120 ms

//***** Start Initial Sequence *****//
LCD_ILI9342C_CMD(0xC8);
LCD_ILI9342C_Parameter (0xFF);
LCD_ILI9342C_Parameter (0x93);
LCD_ILI9342C_Parameter (0x42);

LCD_ILI9342C_CMD(0xC5);
LCD_ILI9342C_Parameter (0xDB);

LCD_ILI9342C_CMD(0xE0);     //Set Gamma
LCD_ILI9342C_Parameter (0x00);
LCD_ILI9342C_Parameter (0x05);
LCD_ILI9342C_Parameter (0x08);
LCD_ILI9342C_Parameter (0x02);
LCD_ILI9342C_Parameter (0x10);
LCD_ILI9342C_Parameter (0x08);
LCD_ILI9342C_Parameter (0x2E);
LCD_ILI9342C_Parameter (0x8A);
LCD_ILI9342C_Parameter (0x41);
LCD_ILI9342C_Parameter (0x08);
LCD_ILI9342C_Parameter (0x0F);
LCD_ILI9342C_Parameter (0x0C);
LCD_ILI9342C_Parameter (0x17);
LCD_ILI9342C_Parameter (0x19);
LCD_ILI9342C_Parameter (0x0F);
}
```

```

LCD_ILI9342C_CMD(0XE1);           //Set Gamma
LCD_ILI9342C_Parameter (0x00);
LCD_ILI9342C_Parameter (0x29);
LCD_ILI9342C_Parameter (0x2F);
LCD_ILI9342C_Parameter (0x03);
LCD_ILI9342C_Parameter (0x0F);
LCD_ILI9342C_Parameter (0x05);
LCD_ILI9342C_Parameter (0x42);
LCD_ILI9342C_Parameter (0x56);
LCD_ILI9342C_Parameter (0x53);
LCD_ILI9342C_Parameter (0x06);
LCD_ILI9342C_Parameter (0x0F);
LCD_ILI9342C_Parameter (0x0C);
LCD_ILI9342C_Parameter (0x38);
LCD_ILI9342C_Parameter (0x3A);
LCD_ILI9342C_Parameter (0x0F);

LCD_ILI9342C_CMD(0x11);           //Exit Sleep
Delays(120);
LCD_ILI9342C_CMD(0x29);           //Display on
}
// Write the display data into GRAM here
LCD_ILI9342C_CMD(0x2C); //GRAM start writing
for ( i=0; i<320; i++)
for ( j=0; j<240; j++)
LCDDATA_Write(0xdata);           // write display data
void LCD_Enter Standby_ILI9342c(void)
{
LCD_CtrlWrite_ILI9342C(0x0028);    // Display off
LCD_CtrlWrite_ILI9342C(0x0010);   // Enter Standby mode
}
void LCD_Exit Standby_ILI9342C(void)
{
LCD_CtrlWrite_ILI9342C(0x0011);    // Standby out
Delays(120);
LCD_CtrlWrite_ILI9342C(0x0029);   // Display on
}

```

## Revision History

### Revision History

Version No.	Date	Page	Description
V01	2011/12/28		For CMI FPC design