

ST7703 Application Note

TFT Mobile Single Chip Driver

For 720RGB x 1280 dot, a-Si TFT LCD, 16.7M color

With MIPI Interface

Version 01 Preliminary
May 2016

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Revision History

Version	Date	Description of Changes
01	2016/05/05	1. New setup

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1. General Command Code

1.1 Read Device ID

```
Void Read_ID(void)
{
Reset();
DelayX1ms(50);

DSI_CMD(0x04,0xB9);
DSI_PA(0xF1);
DSI_PA(0x12);
DSI_PA(0x83);

DSI_Read(0xD0);
ID=GET_DSI();           //The value is 0x0Dh
}

```

1.2 Sleep in

```
Void Sleep_In(void)
{
//Sleep in
DSI_CMD(0x01,0x10);
DelayX1ms(120);
}

```

1.3 Sleep out

```
Void Sleep_out(void)
{
//Sleep out
DSI_CMD(0x01,0x11);
DelayX1ms(120);
}

```

1.4 CABC on

Void PWM_Mode (void)

```
{  
  
DSI_CMD(0x02,0x51);  
DSI_PA(0xFF); //DBV=0xFF  
  
DSI_CMD(0x02,0x53);  
DSI_PA(0x24); //BCTRL=1, BL=1  
  
//PWM Signal from PWM pad  
DSI_CMD(0x02,0xC7);  
DSI_PA(0xA0); //PWM  
  
}
```

1.5 CABC OFF

Void CABC_OFF_Mode (void)

```
{  
  
DSI_CMD(0x02,0x51);  
DSI_PA(0xFF); //DBV=0xFF  
  
DSI_CMD(0x02,0x53);  
DSI_PA(0x00); //BCTRL=0, BL=0  
  
DSI_CMD(0x02,0x55);  
DSI_PA(0x00); //  
  
}
```

2.2 H499TAN03 AUO 5.0" 720x1280 Reference Initial Code

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3.2 C0421 HSD 4.7" 720x1280 Reference Initial Code

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4.2 F050A13 CMI 5.0" 720x1280 Reference Initial Code

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5.2 C047SWA1 IVO 4.7" 720x1280 Reference Initial Code

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6.2 LH499WX1_SH02 LG 4.99" 720x1280 Reference Initial Code

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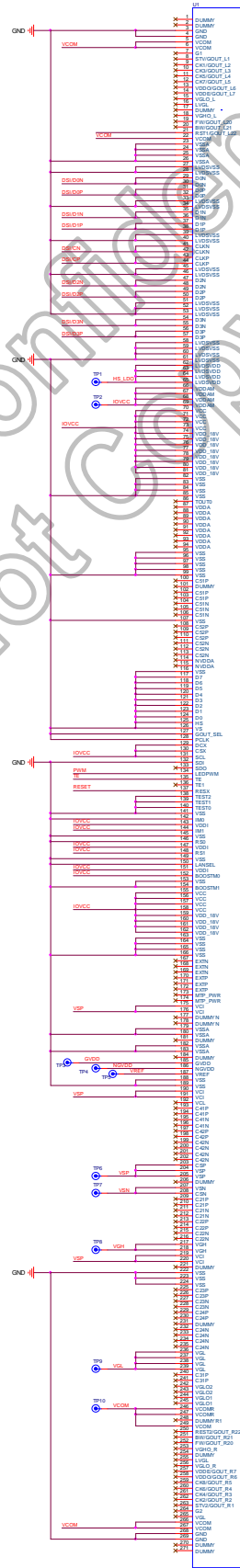
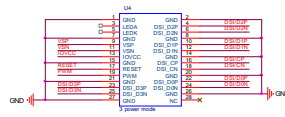
7.2 PG055IA-03H CTC 5.5" 720x1280 Reference Initial Code

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8. CPT

8.1 CPT 5.0" Reference MIPI FPC Circuit



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8.2 050WE41 CPT 5.0" 720x1280 Reference Initial Code

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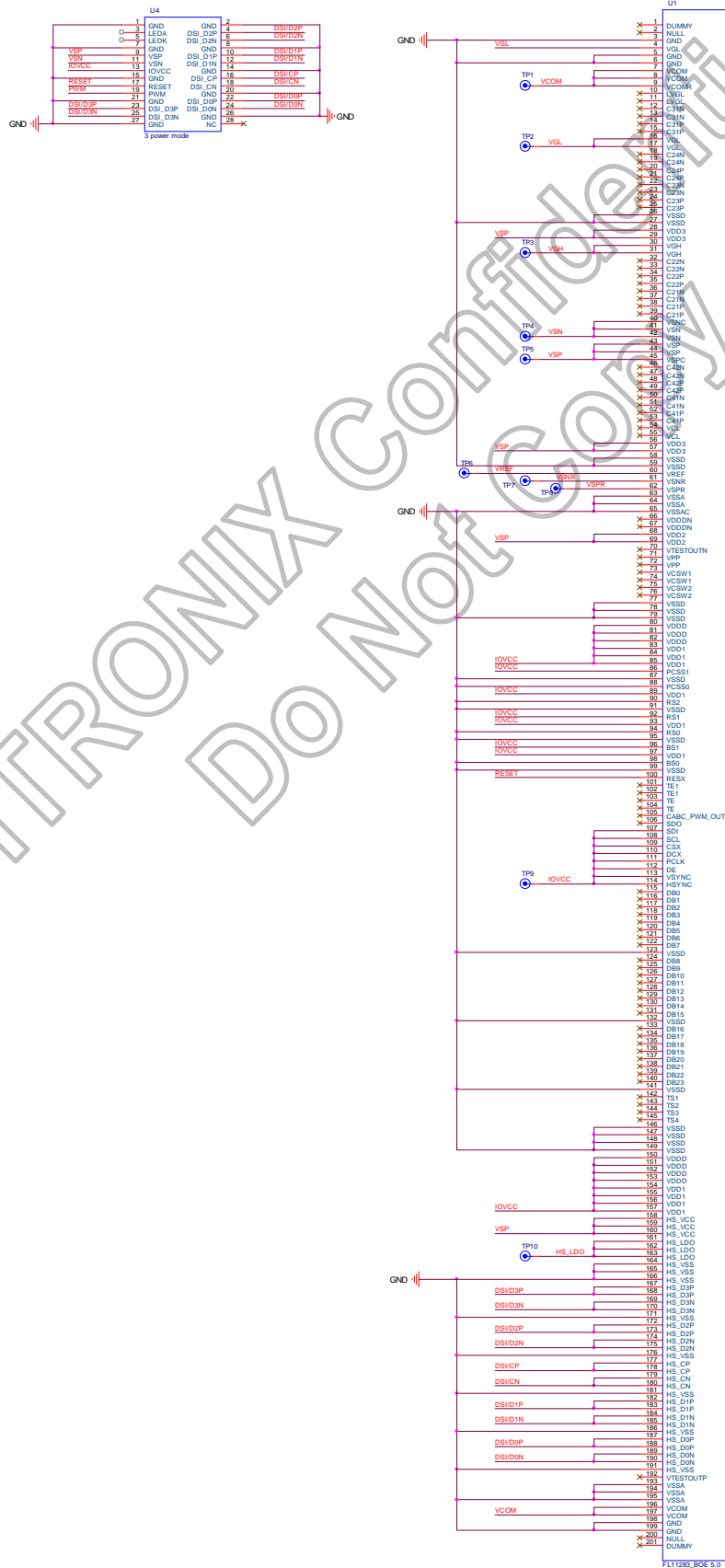
8.4 070WD01 CPT 7.0" 720x1280 Reference Initial Code

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9. BOE

9.1 BF050HDQ BOE 5.0" Reference MIPI FPC Circuit



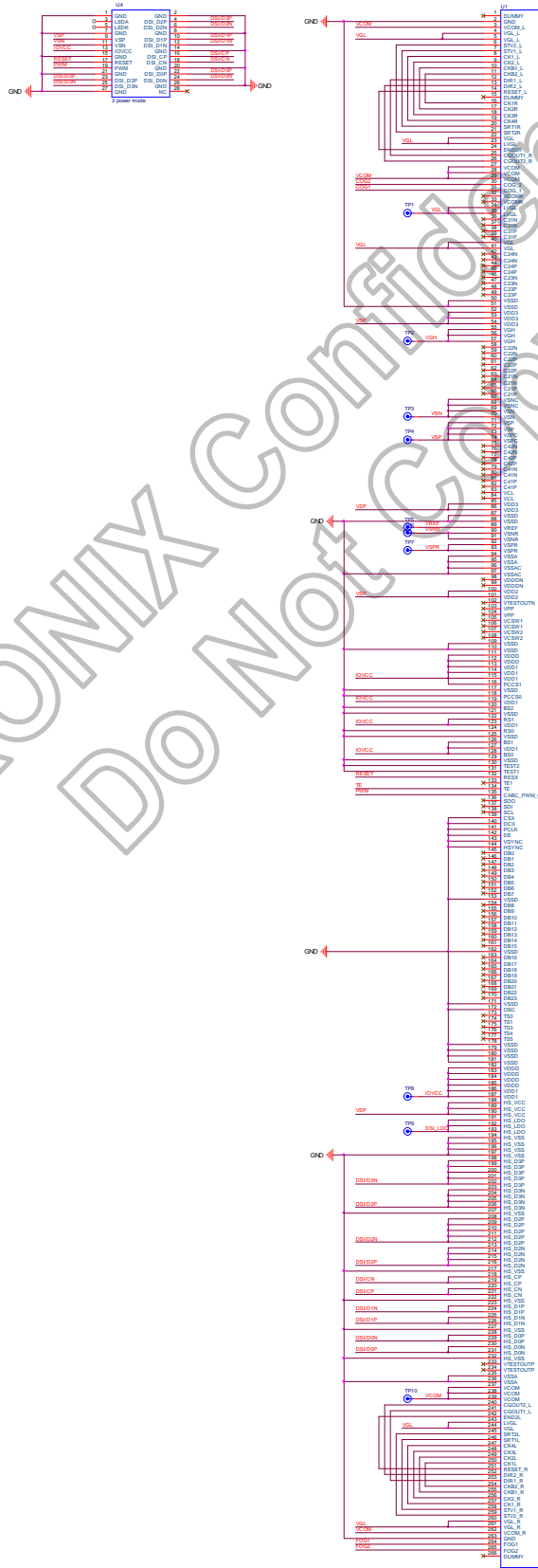
9.2 BF050HDQ BOE 5.0" 720x1280 Reference Initial Code

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10. TIANMA

10.1 TM050 TIANMA 5.0" Reference MIPI FPC Circuit



10.2 TM050 TIANMA 5.0" 720x1280 Reference Initial Code

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