POWERTIP TECH. CORP.

DISPLAY DEVICES FOR BETTER ELECTRONIC DESIGN

Application Note

Module name: PPT9999-A003-06-Q

Issue date: 2007/06/07

Version: 0.0

Note:

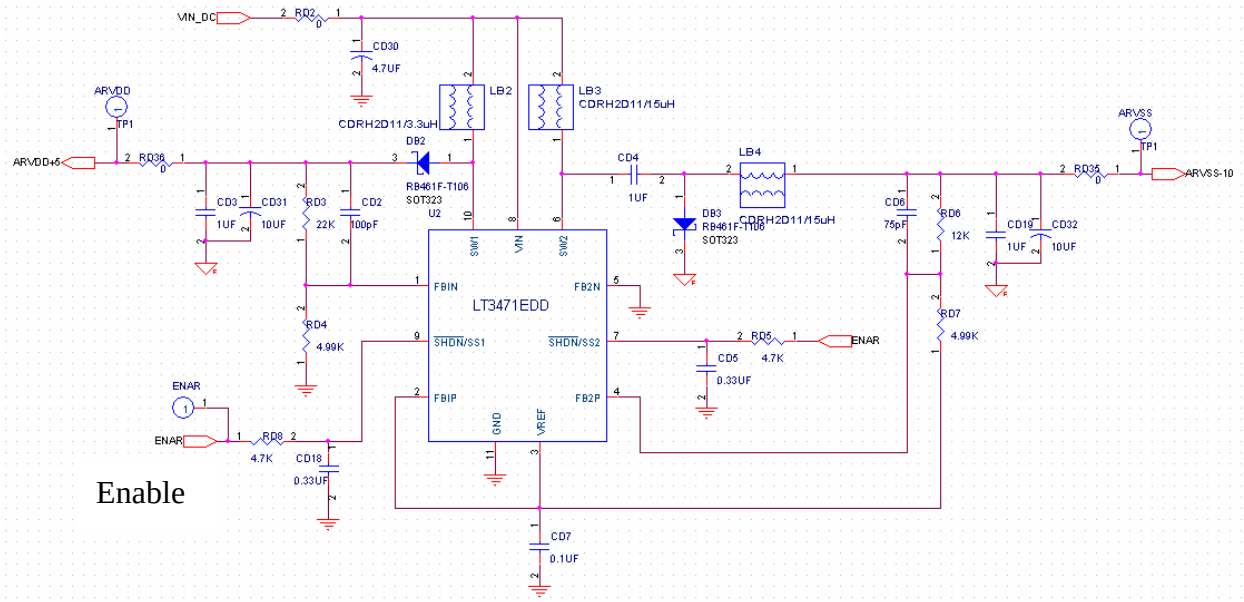
1. The information contained herein may be change without prior notice. It is therefore advisable to contact POWERTIP TECH. CORP. before designed your product based on this specification.

Reversion History

Version	Date	Page	Description
Ver.0	2007,06,07	All	Application note was first issued

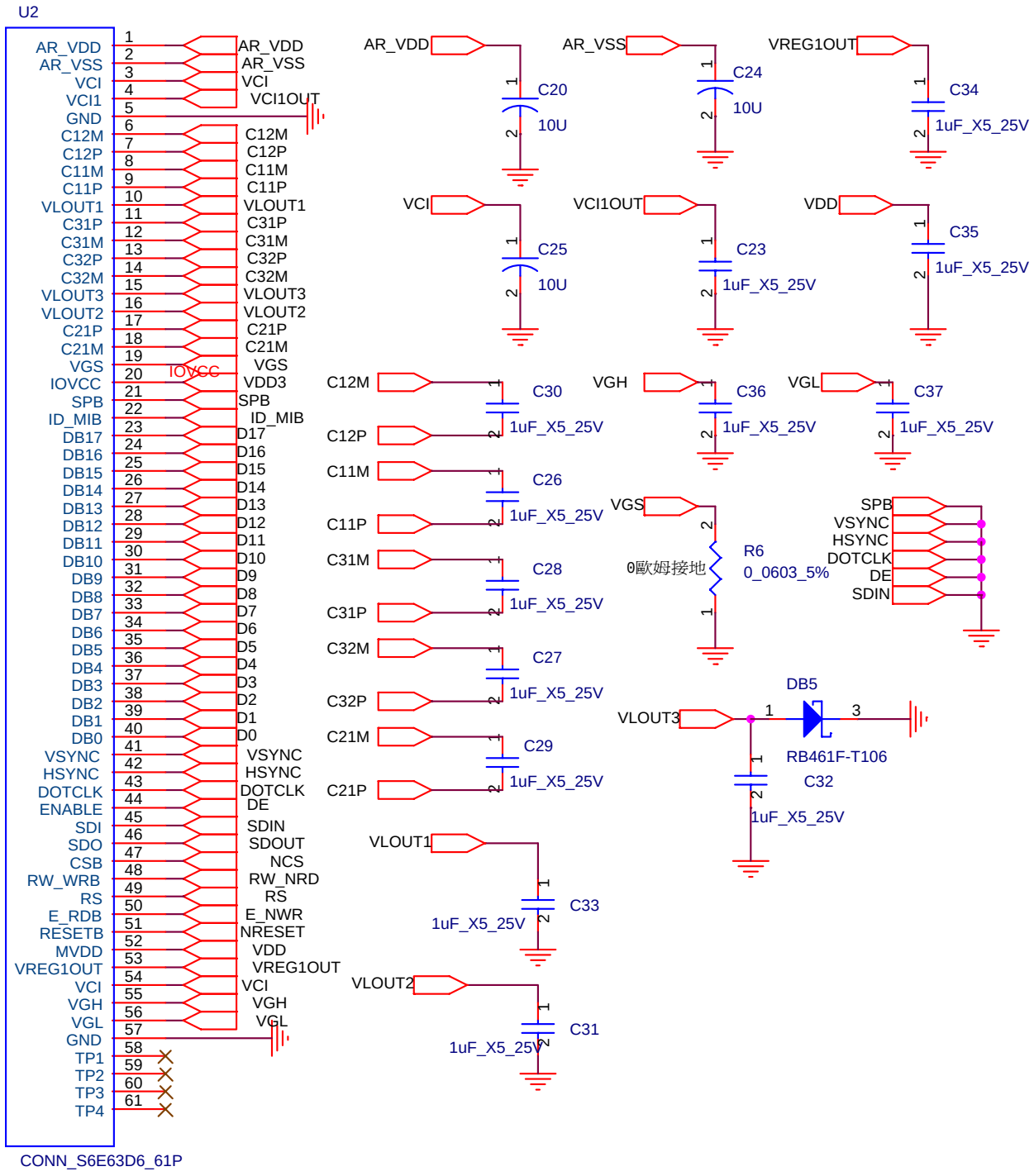
1. Application Circuit

1.1 Below application DC/DC circuit is an example for the input 5v to generate ARVDD,ARVSS



Enable

1.2 Drive IC CPU interface definition



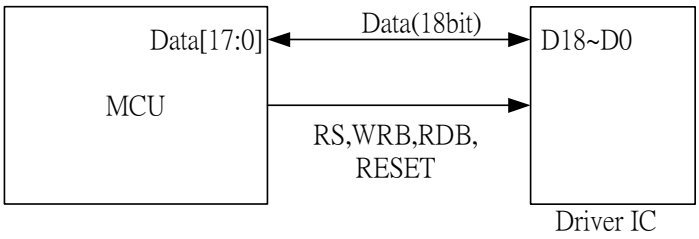
1.3. Drive IC interface spec – BUS spec.

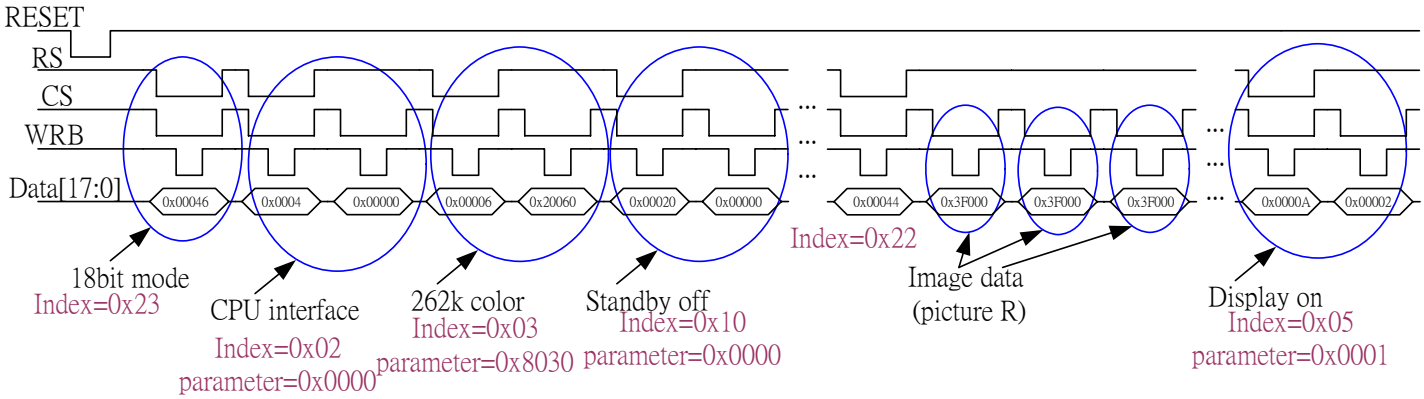
Bus width	Pin selection	note
18-bit interface	DB17-0	
16-bit interface	DB17-10, DB8-1	
9-bit interface	DB8-0	
8-bit interface	DB8-1	

ID_MIB= high 6800 mode

ID_MIB=low 8080 mode

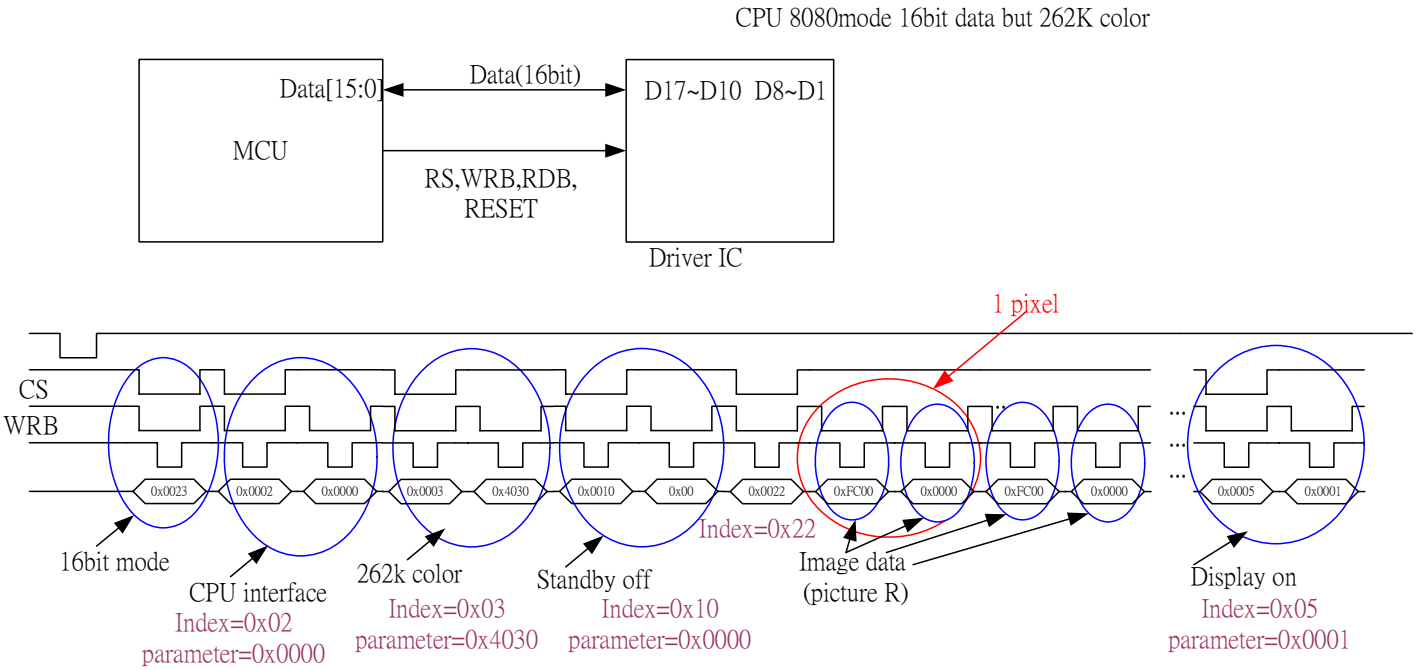
CPU 8080mode 18bit data but 262K color





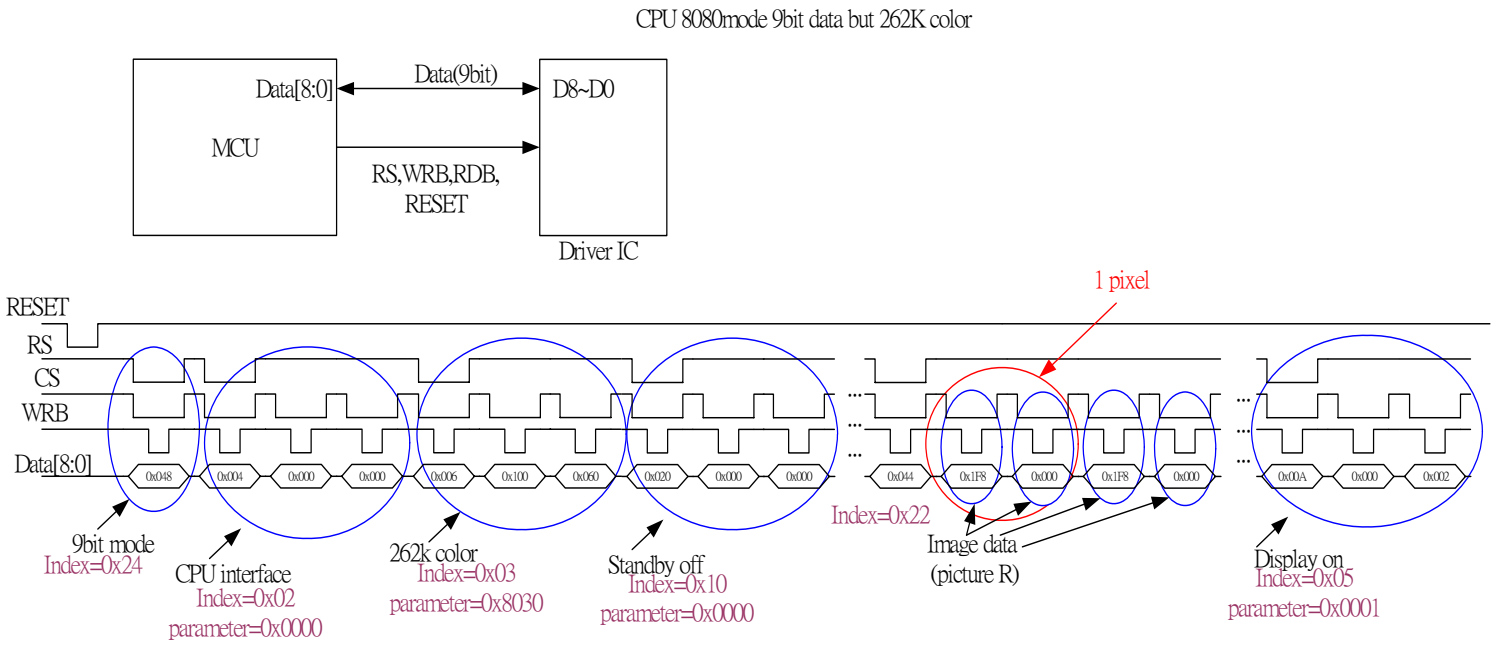
Initial code:

```
Index_out(0x23);
Index_out(0x02);
Parameter_out(0x0000);
Index_out(0x03);
Parameter_out(0x8030);
Index_out(0x10);
Parameter_out(0x0000);
Index_out(0x05);        // display on
Parameter_out(0x0001);
```



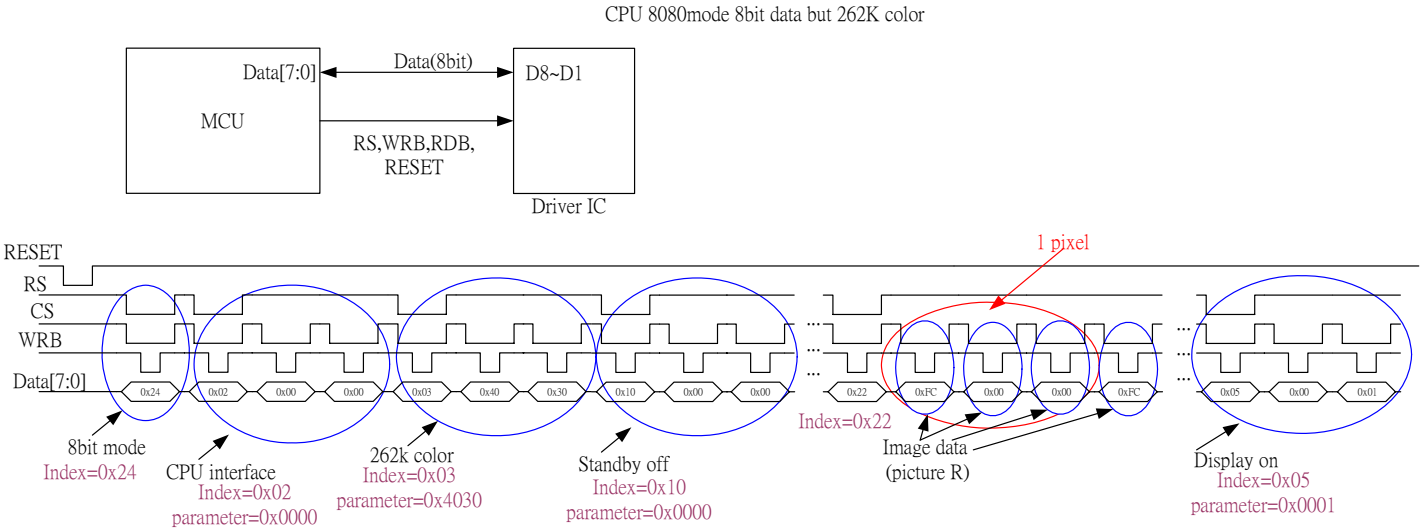
Initial code:

```
Index_out(0x23);
Index_out(0x02);
Parameter_out(0x0000);
Index_out(0x03);
Parameter_out(0x4030);
Index_out(0x10);
Parameter_out(0x0000);
Index_out(0x05);        // display on
Parameter_out(0x0001);
```



Initial code:

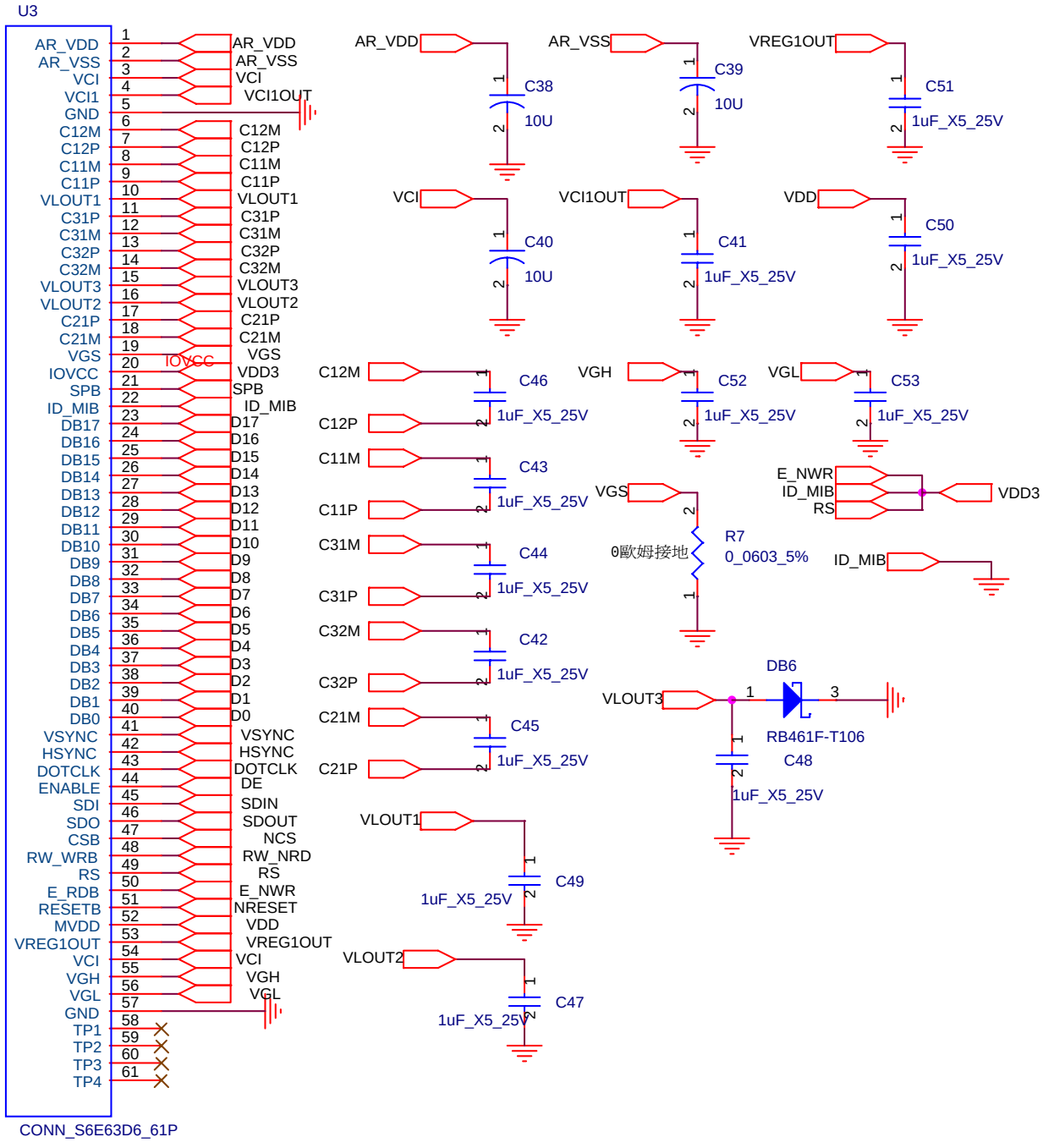
```
Index_out(0x24);
Index_out(0x02);
Parameter_out(0x0000);
Index_out(0x03);
Parameter_out(0x8030);
Index_out(0x10);
Parameter_out(0x0000);
Index_out(0x05);        // display on
Parameter_out(0x0001);
```



Initial code:

```
Index_out(0x24);
Index_out(0x02);
Parameter_out(0x0000);
Index_out(0x03);
Parameter_out(0x4030);
Index_out(0x10);
Parameter_out(0x0000);
Index_out(0x05);        // display on
Parameter_out(0x0001);
```

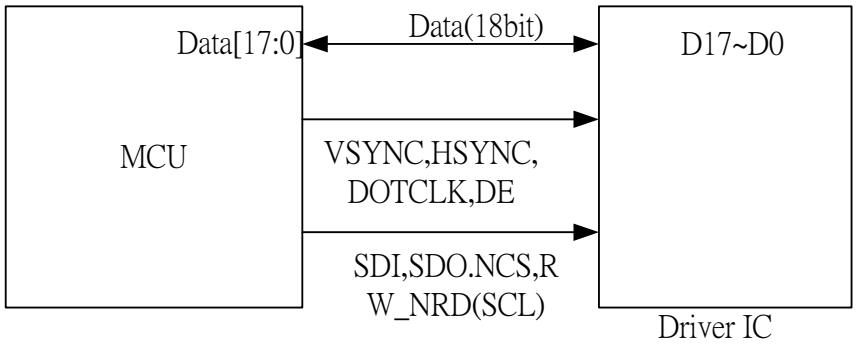
1.4 Drive IC RGB interface definition



Bus width	Pin selection	note
18-bit interface	**DB17-0**	
16-bit interface	**DB17-10, DB8-1**	
6-bit interface	**DB8-3**	

Fix unused pin to vss level

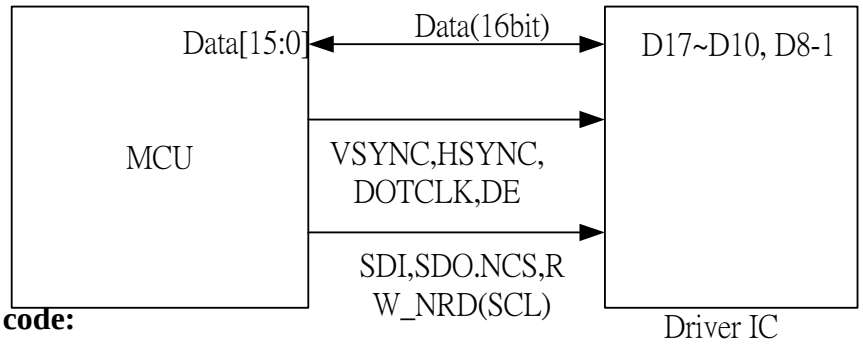
RGB inf18 bit data but 262K color



Initial code:

```
Index_out(0x02);
Parameter_out(0x0182);
Index_out(0x10);
Parameter_out(0x0000);
Index_out(0x05);        // display on
Parameter_out(0x0001);
```

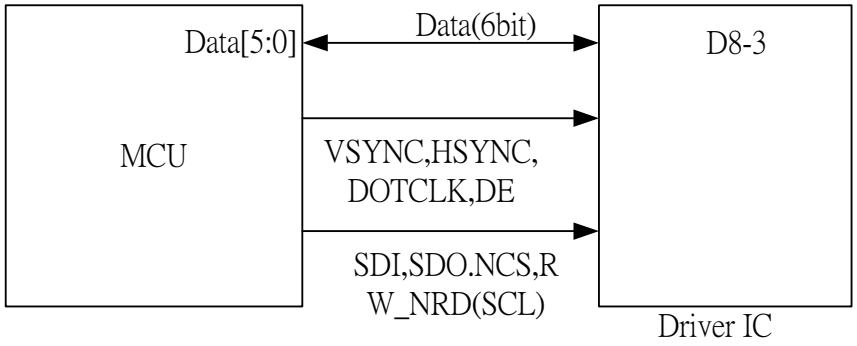
RGB inf16 bit data but 65K color



Initial code:

```
Index_out(0x02);
Parameter_out(0x0192);
Index_out(0x10);
Parameter_out(0x0000);
Index_out(0x05);        // display on
Parameter_out(0x0001);
```

RGB inf 6 bit data but 262K color



Initial code:

```
Index_out(0x02);
Parameter_out(0x01A2);
Index_out(0x10);
Parameter_out(0x0000);
Index_out(0x05);        // display on
Parameter_out(0x0001);
```