

7/10.1 inch LCD Module Instruction

From BananaPro/Pi

Contents

- 1 Instruction
- 2 Identify the hardware combinations
 - 2.1 Different 7 LCD modules
 - 2.2 10.1 LCD modules
 - 2.3 Small Adapter Board
 - 2.4 Different SBC boards
 - 2.5 How to identify the different SBC boards version
 - 2.6 Different hardware combinations
- 3 Hardware connections
 - 3.1 Group A combination hardware connections
 - 3.2 Group B combination hardware connections
 - 3.3 Group C combination hardware connections
 - 3.4 Group D combination hardware connections

Instruction

Because we have different SBC products, such Banana Pro/Pi, LeMaker Guitar Base Board Rev.B, LeMaker Guitar Base Board Rev.B Plus and etc.. The LVDS pin definition is a little different, **so when we use the LeMaker official 7 inch LCD module on the SBC different boards, we need to identify the hardware combinations we are using in the first place.**

How to identify the different SBC boards, please refer the pictures in [1]
(https://web.archive.org/web/20190917162055/http://wiki.lemaker.org/7/10.1_inch_LCD_Module_Instruction#How_to_identify_the_different_SBC_boards_version)

Identify the hardware combinations

Different 7 LCD modules

Please look at the footprint on the adapter board of the 7/10.1 inch LCD module to identify the version of the 7 inch LCD module.
There are two different version 7inch LCD module:

* BL070-LVDS-002
* BL070-LVDS-003

 
BL070-LVDS-002 BL070-LVDS-003

10.1 LCD modules

The 10.1 inch LCD have only one version: BL101-LVDS-003, using it just like BL070-LVDS-003.



Small Adapter Board

In the latest 7 inch or 10.1 inch LCD module package box, there are a small adapter board, it will be used for some special hardware combinations (7/10.1 inch_LCD_Module_Instruction#Different_hardware_combinations).


adapter board

NOTE!!!! VERY IMPORTANT:
CON1: Connect a **short** FPC cable.
CON2: Connect a **long** FPC cable.




Different SBC boards

The 7inch LCD modules can be used for the SBC boards below:

* LeMaker Base Board **Rev.B v1.3**
* LeMaker Base Board **Rev.B plus**
* LeMaker Guitar Base Board **Rev.C**

How to identify the different SBC boards version

The Banana Pro/Pi is very easy to identify, but the LeMaker Guitar Base Board is not easy to identify.
Below we show 3 different version LeMaker Guitar Base Boards:

  
LeMaker Guitar Base Board Rev.B LeMaker Guitar Base Board Rev.B v1.3 LeMaker Guitar Base Board Rev.B Plus

Different hardware combinations

Group A combination: (Connections [2]
(https://web.archive.org/web/20190917162055/http://wiki.lemaker.org/7/10.1_inch_LCD_Module_Instruction#Group_A_combination_hardware_connections))

* Banana Pi + BL070-LVDS-002
* Banana Pro + BL070-LVDS-002
* LeMaker Guitar Base Board **Rev.B** + BL070-LVDS-002

Group B combination: (Connections [3]
(https://web.archive.org/web/20190917162055/http://wiki.lemaker.org/7/10.1_inch_LCD_Module_Instruction#Group_B_combination_hardware_connections))

* Banana Pi + BL070-LVDS-003 or BL101-LVDS-003
* Banana Pro + BL070-LVDS-003 or BL101-LVDS-003
* LeMaker Guitar Base Board **Rev.B** + BL070-LVDS-003 or BL101-LVDS-003

Group C combination: (Connections [4]
(https://web.archive.org/web/20190917162055/http://wiki.lemaker.org/7/10.1_inch_LCD_Module_Instruction#Group_C_combination_hardware_connections))

* LeMaker Guitar Base Board **Rev.B v1.3** + BL070-LVDS-002
* LeMaker Guitar Base Board **Rev.B Plus** + BL070-LVDS-002
* LeMaker Guitar Base Board **Rev.C** + BL070-LVDS-002

Group D combination: (Connections [5]
(https://web.archive.org/web/20190917162055/http://wiki.lemaker.org/7/10.1_inch_LCD_Module_Instruction#Group_D_combination_hardware_connections))



* LeMaker Guitar Base Board **Rev.B v1.3** + BL070-LVDS-003 or BL101-LVDS-003
* LeMaker Guitar Base Board **Rev.B Plus** + BL070-LVDS-003 or BL101-LVDS-003
* LeMaker Guitar Base Board **Rev.C** + BL070-LVDS-003 or BL101-LVDS-003

For "Group A combination" and "Group D combination", we **do not need** the small adapter board between LCD module and SBC boards.
For "Group B combination" and "Group C combination", **we must use the small adapter board between LCD module and SBC boards.**

Hardware connections

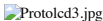

Group A combination hardware connections

For "Group A combination", we just use the long FPC cable to connect the LCD module and SBC boards directly, like below:

 
BananaPro & BL070-LVDS-002 LeMaker Guitar Base Board Rev.B & BL070-LVDS-002

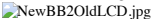
Group B combination hardware connections

For "Group B combination", we need connect the SBC boards to the small adapter board through the **short** FPC cable, and then connect the small adapter board to the LCD module through the **long** FPC cable, like below:

 
BananaPro & BL070-LVDS-003 LeMaker Guitar Base Board Rev.B v1.3 & BL070-LVDS-003

Group C combination hardware connections

For "Group C combination", we need connect the SBC boards to the small adapter board through the **long** FPC cable, and then connect the small adapter board to the LCD module through the **short** FPC cable, like below:



Group D combination hardware connections

For "Group D combination", we just use the long FPC cable to connect the LCD module and SBC boards directly, like Group A combination.

