

# OLED-LCD(Controller:SSD1306)

20140106

Reference;

i2c\_utility\_0.1.f

OLED\_disp\_0.2.f

Font\_converter\_0.1.f

Only connecting sda, scl and power, SSD1306 don't reply.

Prop0 Cog6 ok

i2c\_detect

0 1 2 3 4 5 6 7 8 9 A B C D E F

00: - - - - -

10: - - - - -

20: - - - - -

30: - - - - -

40: - - - - -

50: 50 - - - - -

60: - - - - -

70: - - - - -

i2c\_device:1

Prop0 Cog6 ok

When resetting SSD1306, it reply.

Prop0 Cog6 ok

ssd1306\_reset i2c\_detect

0 1 2 3 4 5 6 7 8 9 A B C D E F

00: - - - - -

10: - - - - -

20: - - - - -

30: - - - - - 3C - - - -

40: - - - - -

50: 50 - - - - -

60: - - - - -

70: - - - - -

i2c\_device:2

Prop0 Cog6 ok

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Prop0 Cog6 ok
page_test      <-- Displaying 8X8 on PAGE mode
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page_test    <-- Displaying 8X8 on PAGE mode
```



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Prop0 Cog6 ok
hrz_test      <-- Displaying 8X8 on Horizontal mode
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hrz_test      <-- Displaying 8X8 on Horizontal mode
```



Prop0 Cog6 ok

vrt\_test <-- Displaying 16X32(Propeller ROM Font) by Vertical mode



Prop0 Cog6 ok

lcd\_off <-- Only Display-Off

Prop0 Cog6 ok

lcd\_on <-- Display-On

Prop0 Cog6 ok

power\_off <-- LCD-Power Off

OLED\_disp\_0.2.f is only sending font-data to SSD1306's GDDRAM.

When using as display, it should define v-ram, WORD displaying 1-character, WORD displaying string and WORD controlling position inside v-ram.

GDDRAM inside SSD1306 is row-type.

So, I convert 8X8-font(column-type) to 8X8-font(row-type) by Font\_converter\_0.1.f.